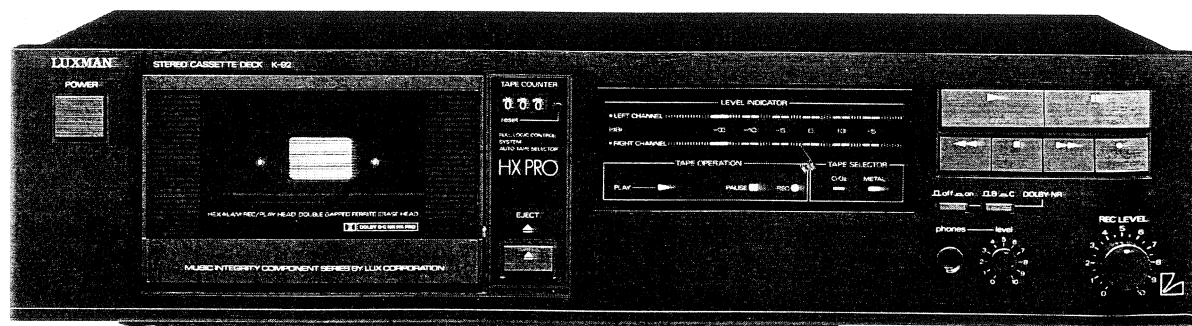


SERVICE MANUAL



Stereo Cassette Deck
K-92



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Specifications

Power Source	AC 220/240V (50/60Hz)
Tape Speed (MTT-111).....	4.75cm/sec. +3%, - 2%
Wow & Flutter (MTT-111, JIS WRMS).....	≤ 0.11%
FF/REW Time (C-60)	≤ 105 sec.
Frequency Response (Playback, ± 4dB)	Normal : 40Hz~14kHz CrO2 : 40Hz~16kHz Metal : 40Hz~16kHz
S/N Ratio (Over all JIS Weighted "A" curve)	Dolby NR-OFF : Normal ≥ 50dB, CrO2/Metal ≥ 52dB Dolby NR-B : Normal/CrO2/Metal ≥ 57dB Dolby NR-C : Normal/CrO2 ≥ 63dB, Metal ≥ 65dB
Input Sensitivity	Line ≤ 100mV
Output Level at 0dB playback	Line : 500mV ± 1.5dB/47k ohm Headphone ≤ 100mV/8 ohm
Distortion 3rd (0dBm input at 333Hz).....	Normal : ≤ 2.5% CrO2/Metal : ≤ 3%
Semi-Conductors	14 IC's, 49 Transistors, 14 Diodes, 2 Zener Diodes, 17 LED's
Chassis Dimensions.....	438(W) x 100(H) x 250(D) mm
Weight	3.8 kg

NOTE: Due to continuing product improvement, specifications and designs are subject to change without notice.

Parts Locations and Disassembly Instructions

Figure 1

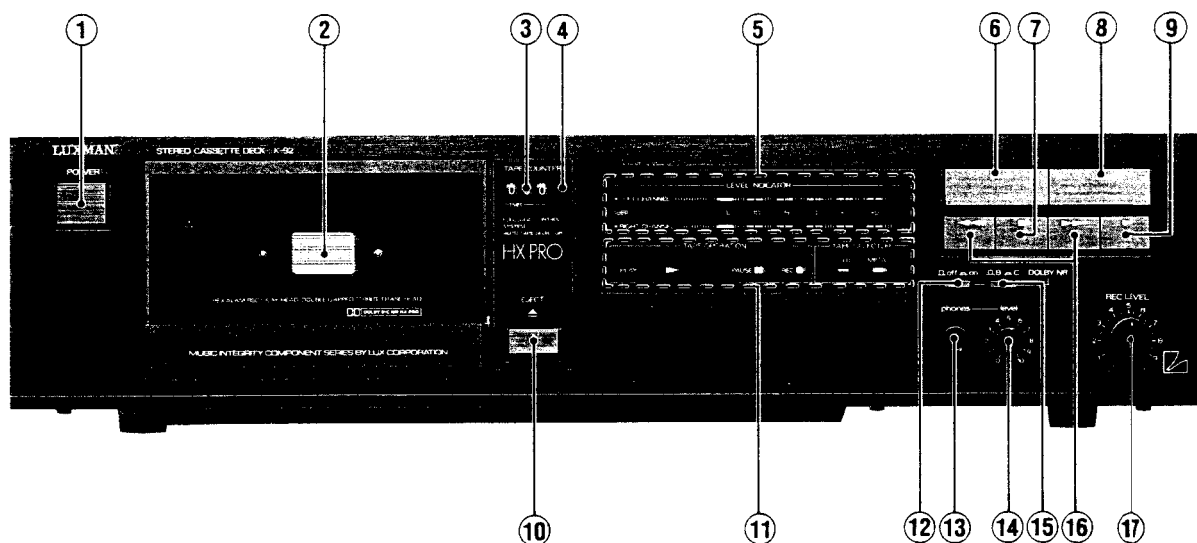
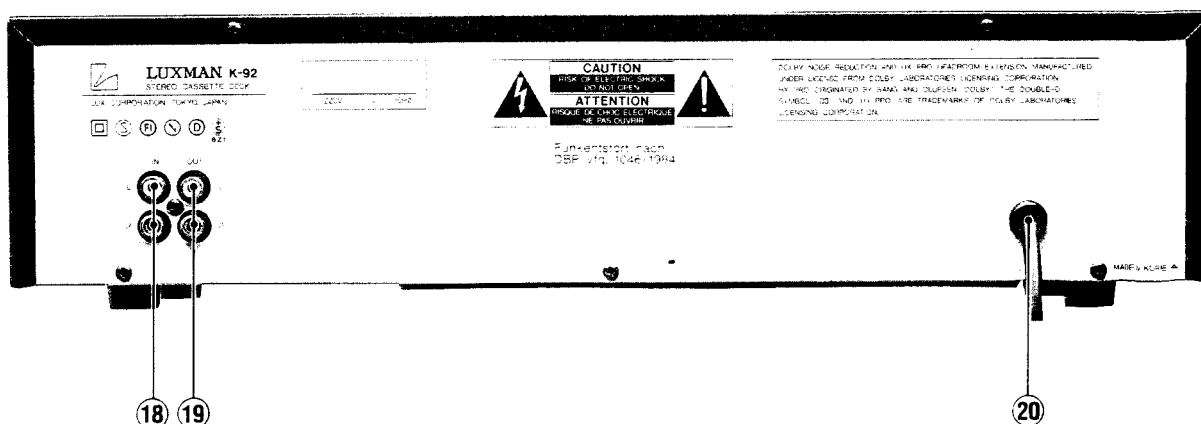
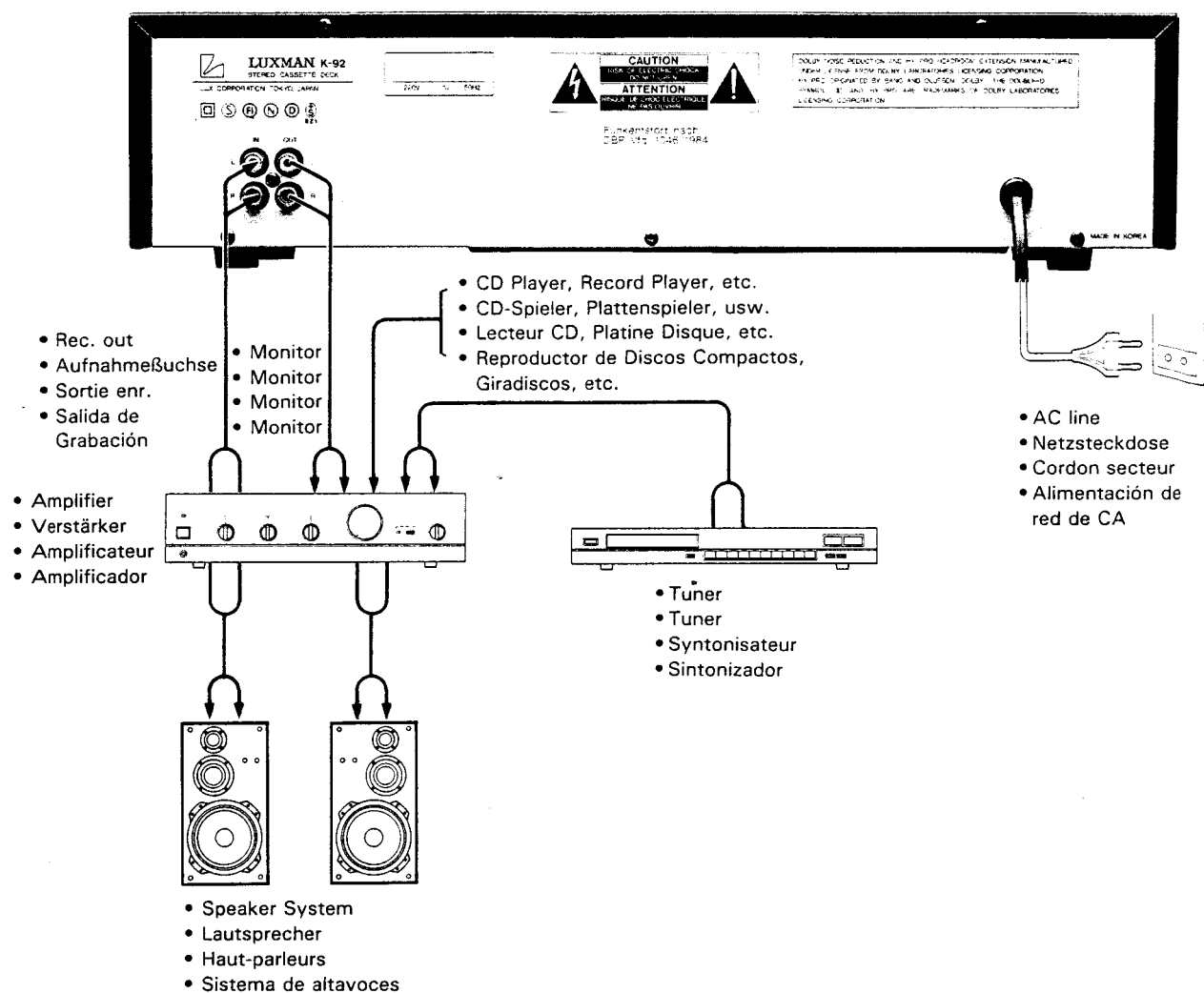


Figure 2



- | | |
|-----------------------------|----------------------------------|
| ① Power Button | ⑪ Function Indicators |
| ② Cassette Door | ⑫ Dolby NR ON/OFF Button |
| ③ Tape Counter | ⑬ Phones Jack |
| ④ Tape Counter Reset Button | ⑭ Level Control Knob |
| ⑤ Level Indicators | ⑮ Dolby NR Select (B/C) Button |
| ⑥ Play Button (▶) | ⑯ Fast Forward and Rewind Button |
| ⑦ Stop Button (■) | ⑰ Rec Level Control Knob |
| ⑧ Pause Button (⏸) | ⑱ Input Jacks |
| ⑨ Record Button (●) | ⑲ Output Jacks |
| ⑩ Eject Button (▲) | ⑳ AC Power Cord |

Figure 3



1. Removal of Top Cabinet (Figure 4)

- (1) Remove four screws marked (A) and four screws marked (B).
- (2) Slide off the top cabinet, stretching the both sides slightly outside.

2. Removal of Front Panel (Figure 5)

- (1) Remove the top cabinet as shown above.
- (2) Disconnect all connectors from the main P.C. Board and the cassette deck.
- (3) Turn the unit upside down, and remove four screws marked (C) and three nylon rivets marked (D) from the bottom cabinet.
- (4) Remove the front panel by pulling it.

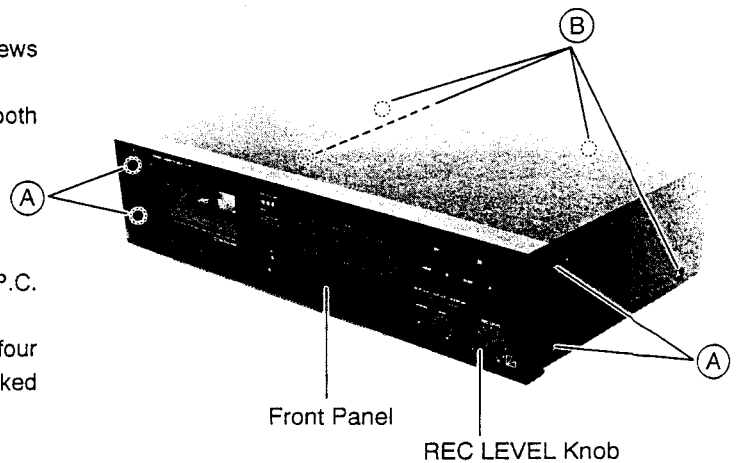


Figure 4

3. Removal of Cassette Deck Mechanism (Figure 6)

- (1) Remove the front panel as shown above.
- (2) Open the cassette door by pressing the EJECT button.
- (3) To remove the cassette deck mechanism, remove the belt from the counter pulley on the mechanism. (Be careful not to miss the belt.)
- (4) Remove four black screws (E) from the cassette deck mechanism.
- (5) Remove the cassette deck mechanism from the front panel. Be careful not to miss the slider with spacer and screw (shown by * in Figure 6) when removing the mechanism.

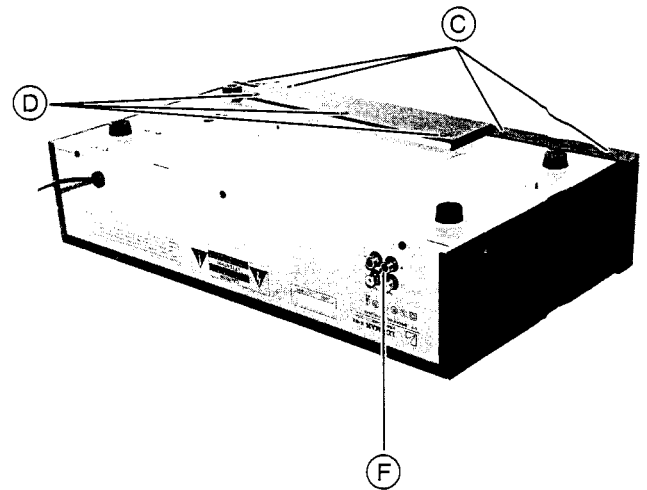


Figure 5

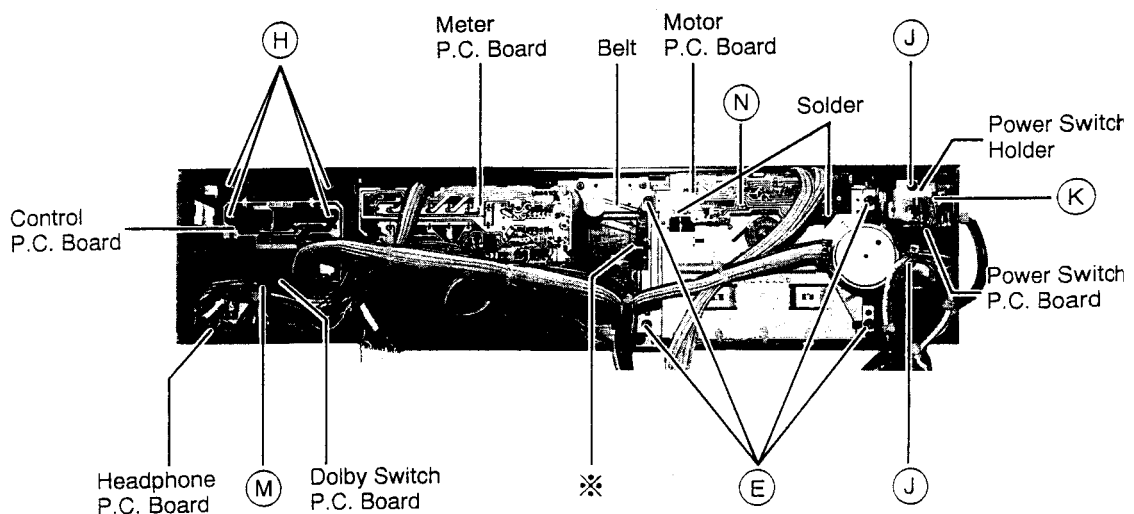


Figure 6

4. Removal of Main P.C. Board (Figures 5 and 7)

- (1) Remove the top cabinet.
- (2) Disconnect all connectors from the main P.C. Board and the cassette deck.
- (3) Remove a screw (F) from the RCA jack section. (Figure 5)
- (4) Remove four screws (G) from the P.C. Board. (Figure 7)

5. Removal of Control P.C. Board (Figure 6)

- (1) Remove the front panel.
- (2) Remove four screws (H) from the P.C. Board.

6. Removal of Power Switch P.C. Board (Figure 6)

- (1) Remove the front panel.
- (2) Make sure that the power switch is off (not depressed.)
- (3) Remove two screws (J) that secure the power switch holder.
- (4) Pull the power switch P.C. Board with the holder strongly backward to remove the power switch shaft from the power switch knob.
- (5) Remove one screw (K) from the holder.

7. Removal of Dolby Switch P.C. Board (Figure 8)

- (1) Remove the front panel.
- (2) Remove two screws (L) from the P.C. Board.

8. Removal of Headphone P.C. Board (Figures 4 and 6)

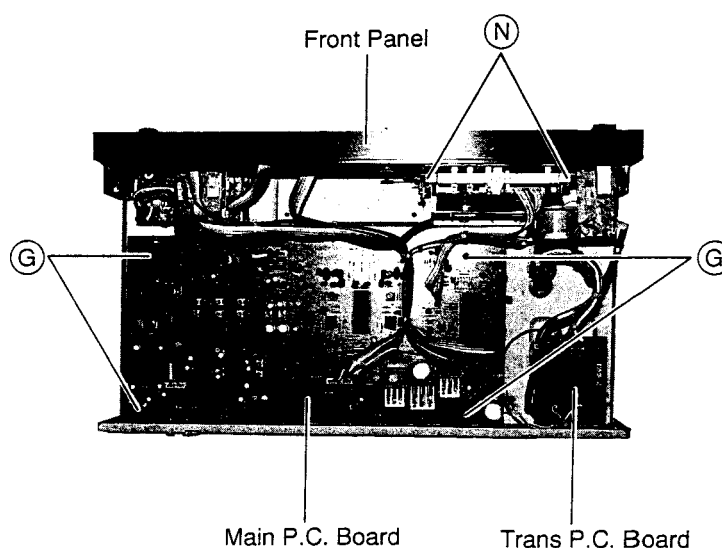
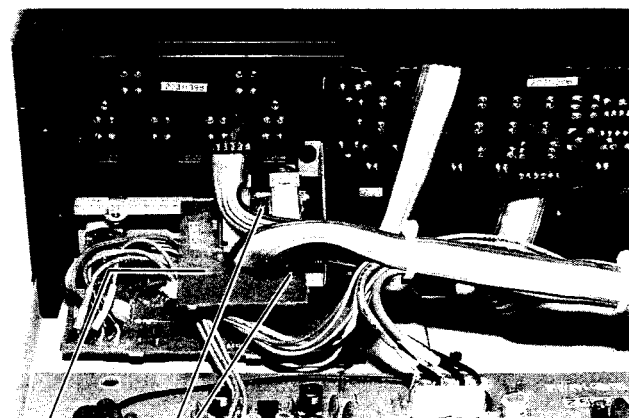
- (1) Remove the front panel.
- (2) Remove REC LEVEL knob from the front panel by pulling it. (Figure 4)
- (3) You will find a nut with a washer in the hole after removing the REC LEVEL knob. Remove the nut and washer.
- (4) Remove one screw (M) from the headphone holder. (Figure 6)

9. Removal of Meter P.C. Board (Figure 6)

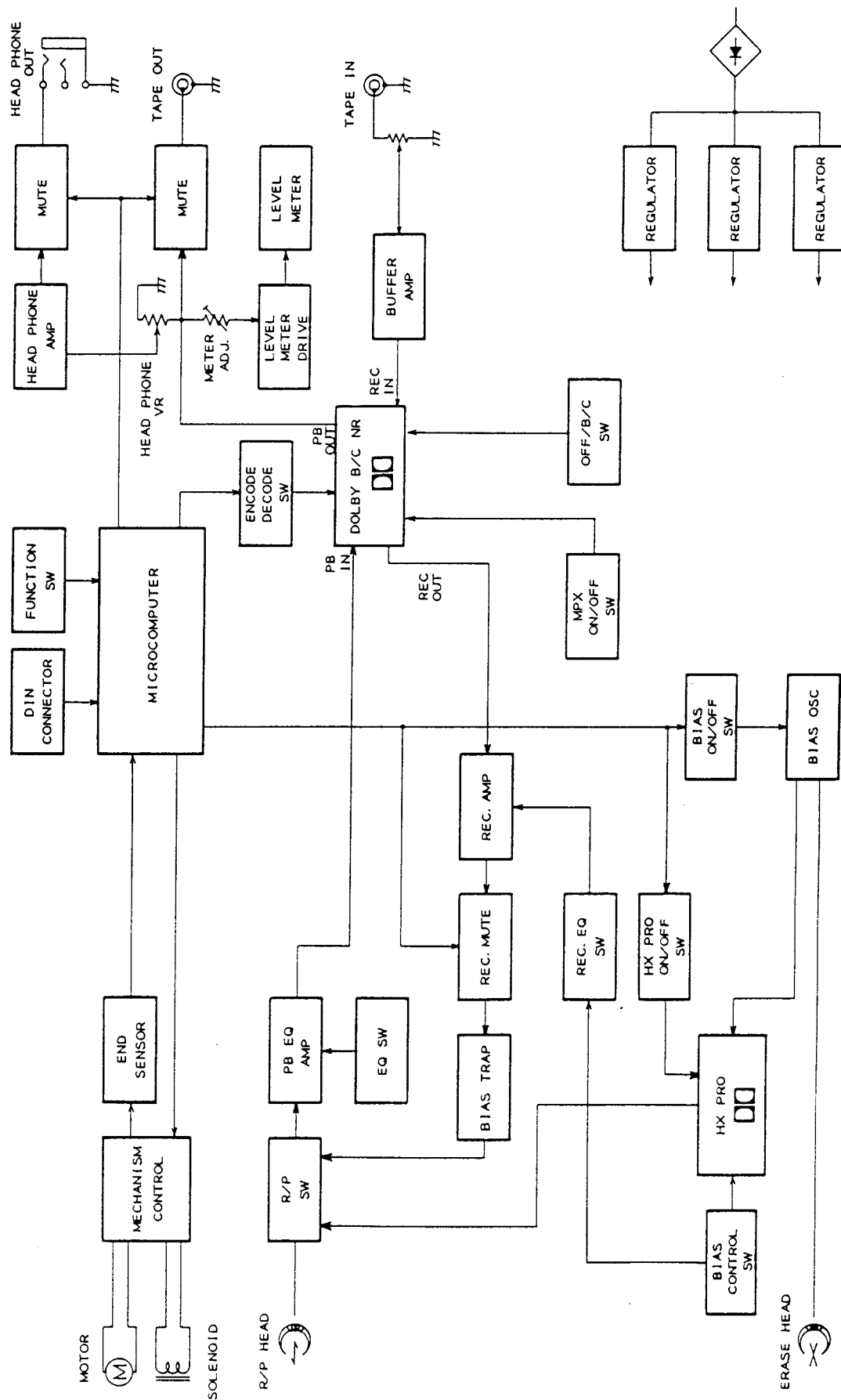
- (1) Remove the front panel.
- (2) Remove the P.C. Board by stretching the four detents slightly that secure the P.C. Board to the frame.

10. Removal of Motor P.C. Board (Figures 6 and 7)

- (1) Remove the cassette deck mechanism.
- (2) Remove three screws (N) from the P.C. Board.
- (3) Unsolder the two solenoids and remove the P.C. Board.

**Figure 7**Dolby Switch
P.C. Board**Figure 8**

Block Diagram



Adjustment Procedures

TEST EQUIPMENTS

1. VTVM (Vacuum Tube Voltmeter)
2. Signal Generator
3. Resistance Attenuator
4. Screwdriver
5. Frequency Counter

6. Test Tapes

- MTT-111 (Speed 3kHz)
 MTT-114 (Azimuth 10kHz)
 MTT-150 (Dolby 400Hz Modulation)
 AC-223 (Normal Tape : Blank)
 AC-512 (CrO2 Tape : Blank)
 AC-712 (Metal Tape : Blank)


No.	Adjustment Item	Test Value	Test Tape	Rec. Volume Control VR802	Switch Position			Adjustable Parts	Test Point	Input Frequency	Equipment/ Connection	Remarks
					NR	NR B or C	Input					
1	Head Azimuth Adjustment	Maximum	MTT-114	—	OFF	—	—	Adjustment Screw	TAPE OUT	—	VTVM See Fig. 9	Apply lock paint after adjustment.
2	Tape Speed (Normal Speed)	3000 ± 30Hz	MTT-111	—	OFF	—	—	VR845	TAPE OUT	—	Frequency Counter	Check at the halfway point of the tape length.
3	Playback Sensitivity Adjustment	500 ± 10mV	MTT-150	—	OFF	—	—	VR101 (L) VR102 (R)	TAPE OUT	—	See Fig. 10	—
4	Bias Oscillator Frequency Adjustment	105 ± 0.5kHz	AC-223	—	OFF	—	—	L209	HOT : TP-1 GND : TP-2	—	See Fig. 11	Adjust in REC mode.
5	Bias Trap Adjustment	Minimum	AC-223	—	OFF	—	—	Lch L205	HOT : TP-5 GND : TP-7	—	VTVM	Adjust in REC mode.
								Rch L206	HOT : TP-6 GND : TP-7			
6	Bias Current Adjustment	5.2 ± 0.1mV	AC-223	—	OFF	—	—	Lch/Rch VR207/VR208	Lch HOT : TP-1 GND : TP-2	—	VTVM	Adjust in REC mode.
		6.2 ± 0.1mV	AC-512					Lch/Rch VR205/VR206	Rch HOT : TP-3 GND : TP-4			
		11 ± 0.2mV	AC-712					Lch/Rch VR203/VR204				
7	Rec. Level Meter Sensitivity Adjustment	+3dB	AC-223	Maximum	OFF	—	TAPE IN	Lch VR815	Lch HOT : TP-12 GND : TP-14	400Hz	VTVM	Adjust VR815/816 so that the +3dB point ( mark) on the level meter lights dimly. (Input level at 90mV –1.5dB).
								Rch VR816	Rch HOT : TP-13 GND : TP-14			
8	Rec. Sensitivity Adjustment	160mV ± 0.5dB	AC-223	Maximum	OFF	—	TAPE IN	Lch VR209	Lch HOT : TP-15 GND : TP-7	400Hz	See Fig. 12	Adjust VR209/210 so that TP15-7/16-7 measure 100mV ± 0.5dB. When supply the input level at 90mV, check that TAPE OUT for 500mV ± 40mV.
								Rch VR210	Rch HOT : TP-16 GND : TP-7			
9	Rec./PB Frequency Response Adjustment	0 ± 1dB	AC-223	Maximum	OFF	—	TAPE IN	Lch/Rch VR207/VR208	TAPE OUT	400Hz 10kHz	See Fig. 13	Adjust TAPE OUT for 500mV – 25dB first by resistance attenuator. Then adjust VRs 203-208 so that the rec/play level is 0 ± 1dB.
			AC-512					Lch/Rch VR205/VR206				
			AC-712					Lch/Rch VR203/VR204				
Measurement Conditions												
● Power Supply : AD=220V (50Hz) ● Input : 0dB=1Vrms ● TAPE IN (Signal Generator Output Impedance) : 600 ohms ● TAPE OUT (Load Impedance) : 47k ohms ● HEADPHONE OUT (Load Impedance) : 8 ohms ● Test Point Load Impedance : No load												

Figure 9 HEAD AZIMUTH ADJUSTMENT

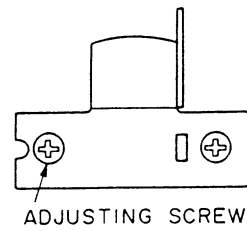


Figure 10 PLAYBACK SENSITIVITY ADJUSTMENT

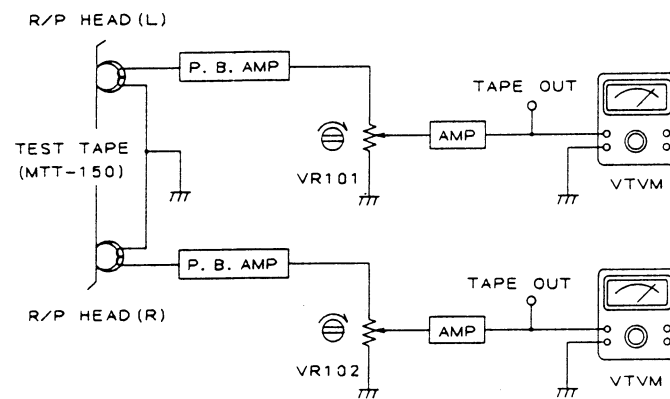


Figure 11 BIAS OSCILLATOR FREQUENCY ADJUSTMENT

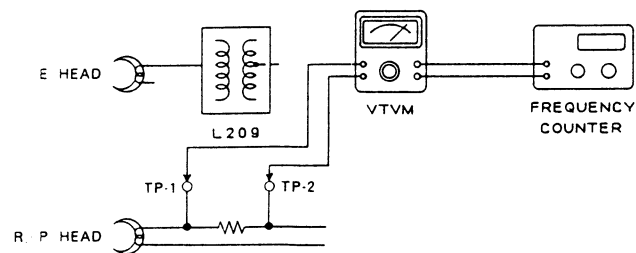


Figure 12 RECORD SENSITIVITY ADJUSTMENT

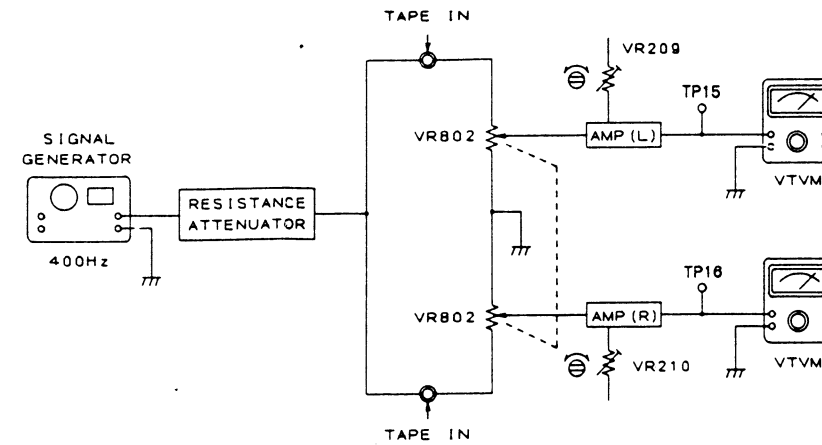
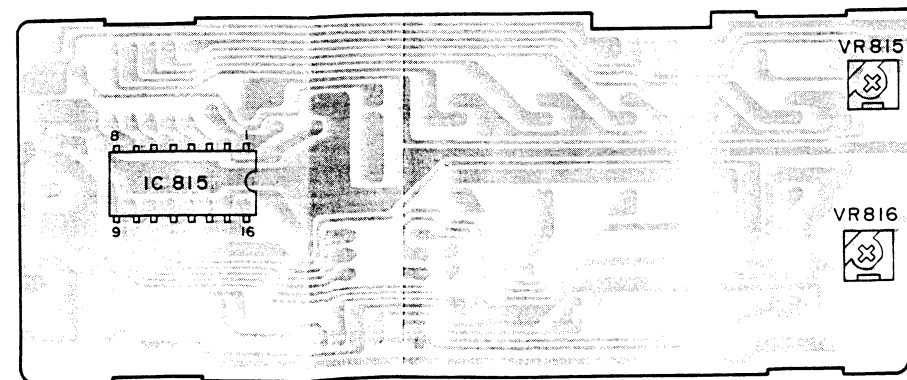
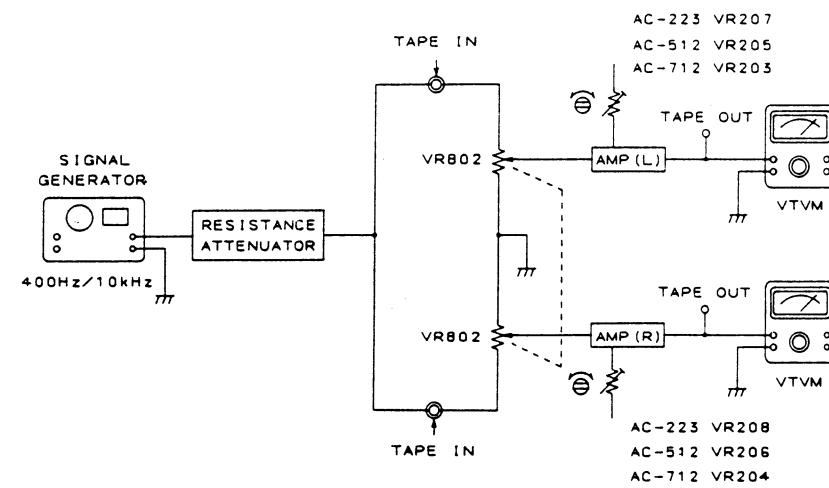
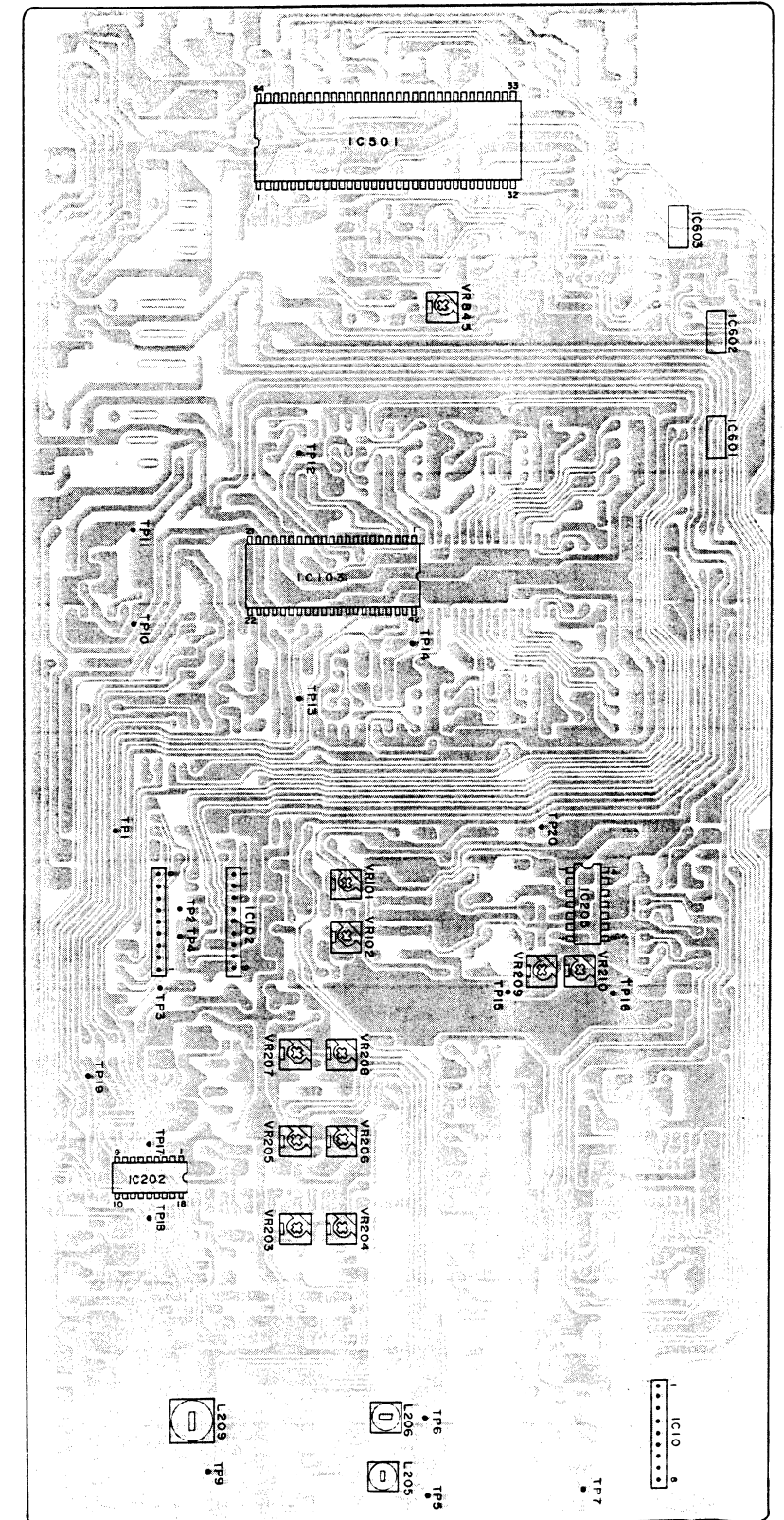


Figure 13 RECORD/PLAYBACK FREQUENCY RESPONSE ADJUSTMENT



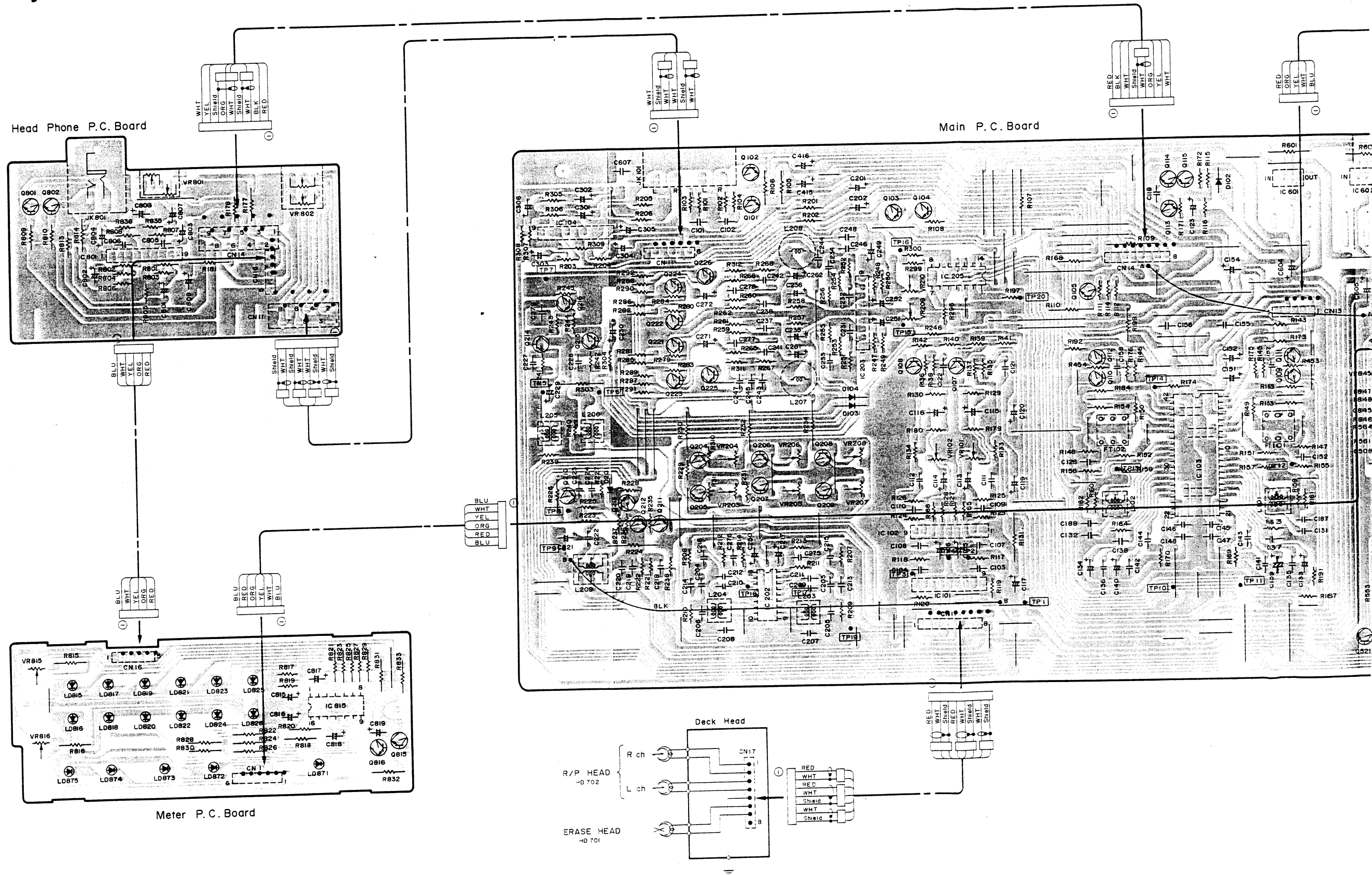
Meter P.C. Board

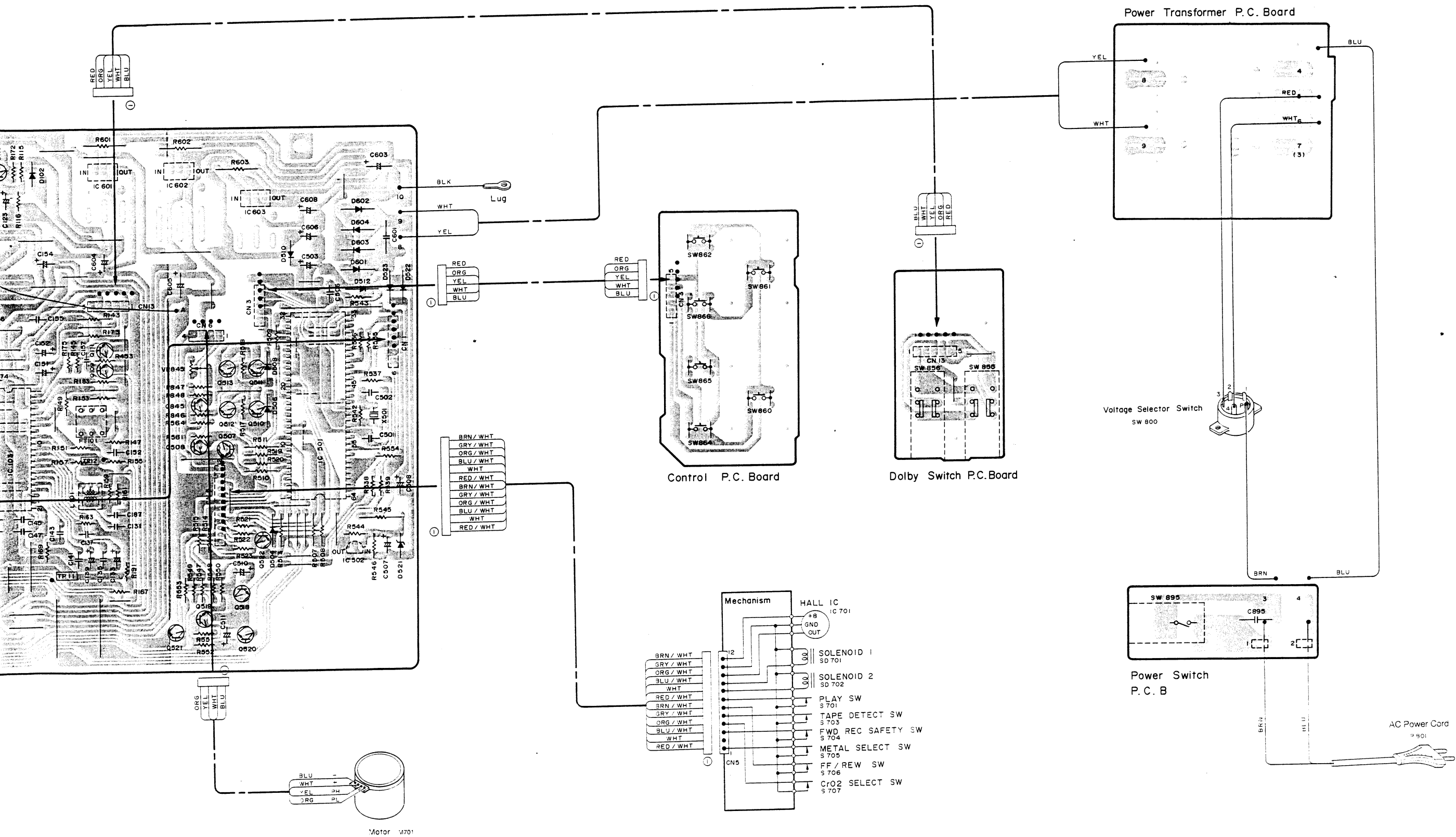
Adjustment Locations



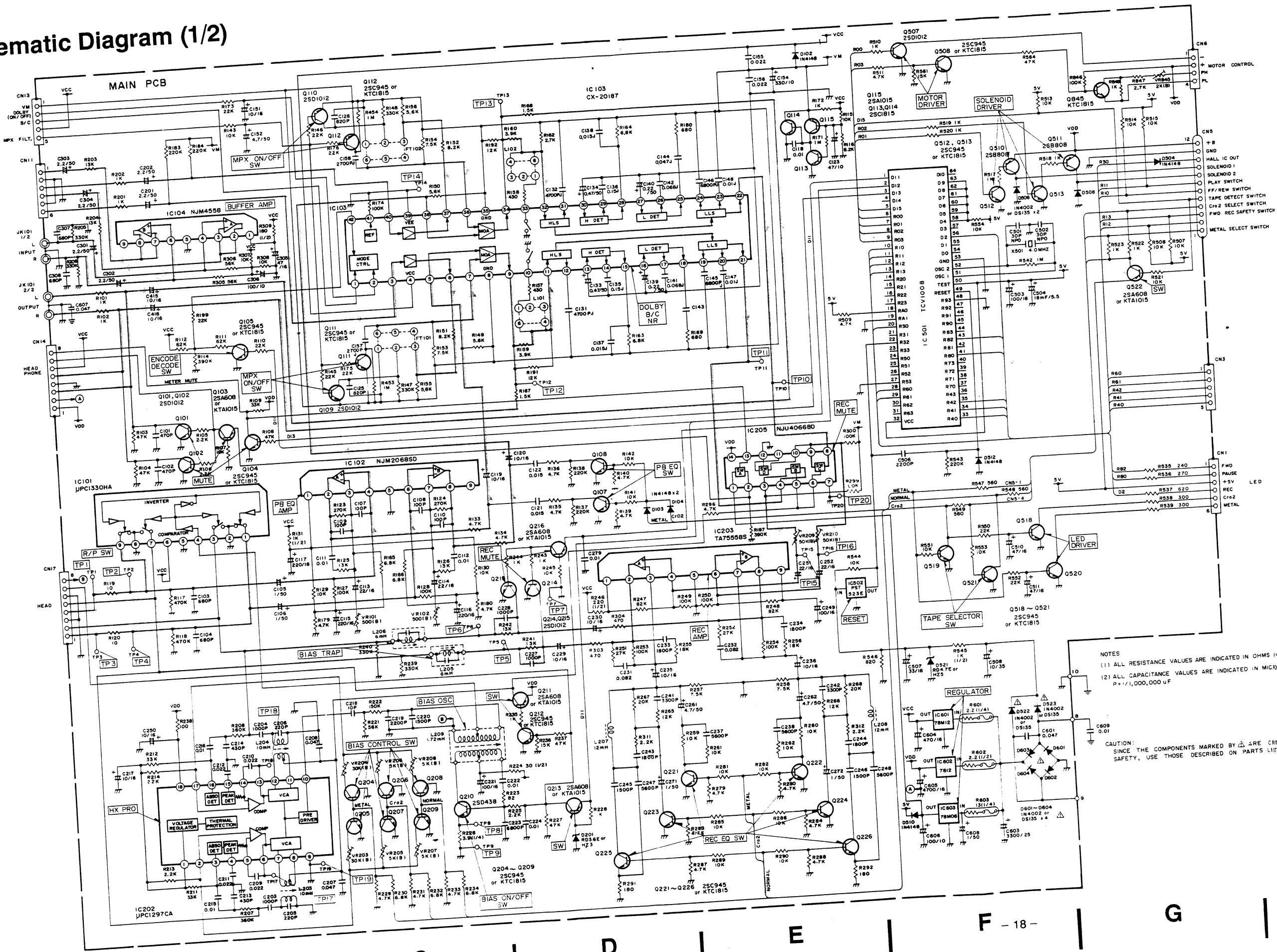
Main P.C. Board

Parts Layout on P.C. Boards and Wiring Diagram





Schematic Diagram (1/2)



NOTES
 (1) ALL RESISTANCE VALUES ARE INDICATED IN OHMS (1,000 Ω)
 (2) ALL CAPACITANCE VALUES ARE INDICATED IN MICROFARADS.
 P = 1,000,000 uF

CAUTION:
 SINCE THE COMPONENTS MARKED BY Δ ARE CRITICAL FOR
 SAFETY, USE THOSE DESCRIBED ON PARTS LIST ONLY.

Pin No.	IC101
1	0V
2	0V
3	0V
4	4.4V
5	0V
6	12.0V
7	0V
8	0V
9	0V

Pin No.	IC102
1	7.3V
2	5.8V
3	5.0V
4	4.9V
5	0V
6	4.8V
7	5.0V
8	5.6V
9	7.7V

Pin No.	R
1	4.7K
2	10K
3	10K
4	10K
5	10K
6	10K
7	10K
8	10K
9	10K

Pin No.	R
1	4.7K
2	10K
3	10K
4	10K
5	10K
6	10K
7	10K
8	10K
9	10K

Pin No.	R
1	4.7K
2	10K
3	10K
4	10K
5	10K
6	10K
7	10K
8	10K
9	10K

Pin No.	R
1	4.7K
2	10K
3	10K
4	10K
5	10K
6	10K
7	10K
8	10K
9	10K

Pin No.	R
1	4.7K
2	10K
3	10K
4	10K
5	10K
6	10K
7	10K
8	10K
9	10K

Pin No.	R
1	4.7K
2	10K
3	10K
4	10K
5	10K
6	10K
7	10K
8	10K
9	10K

Pin No.	R
1	4.7K
2	10K
3	10K
4	10K
5	10K
6	10K
7	10K
8	10K
9	10K

Schematic Diagram (2/2)

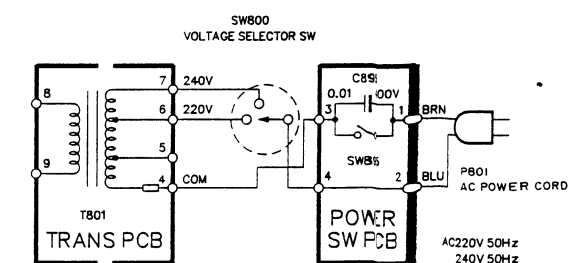
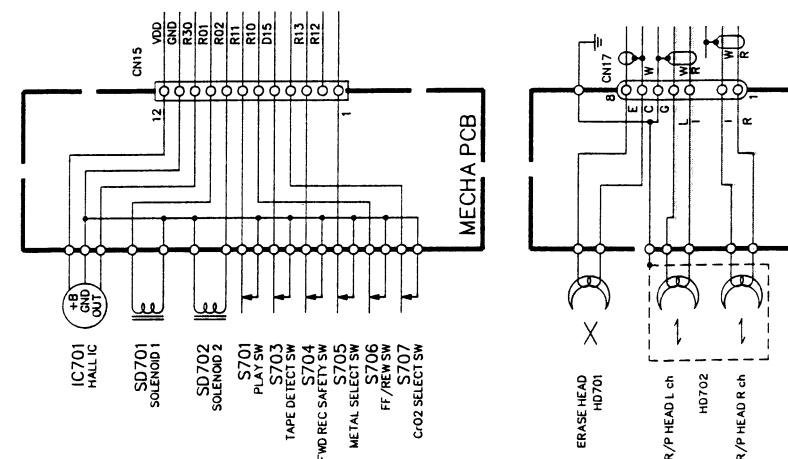
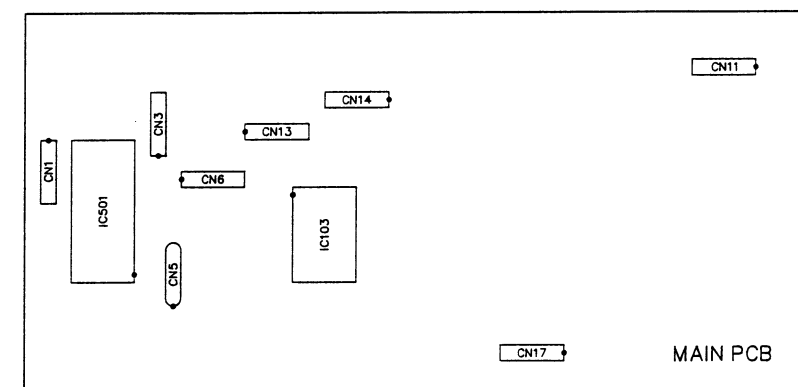
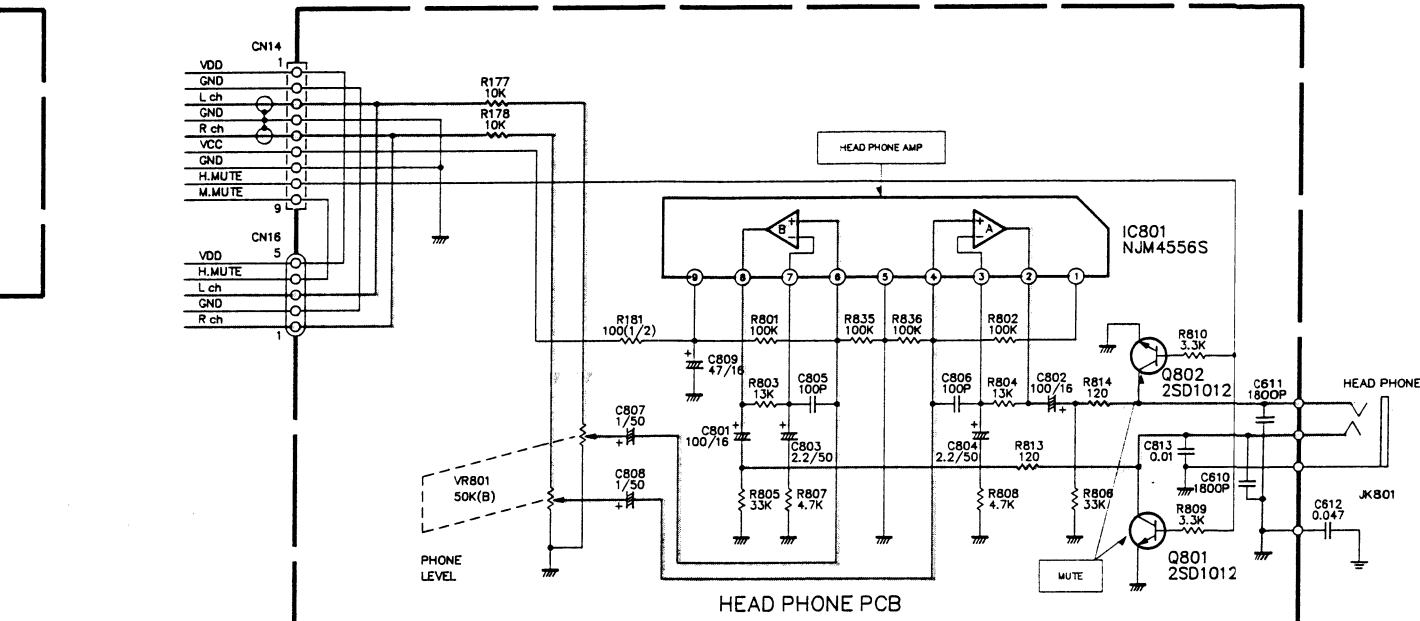
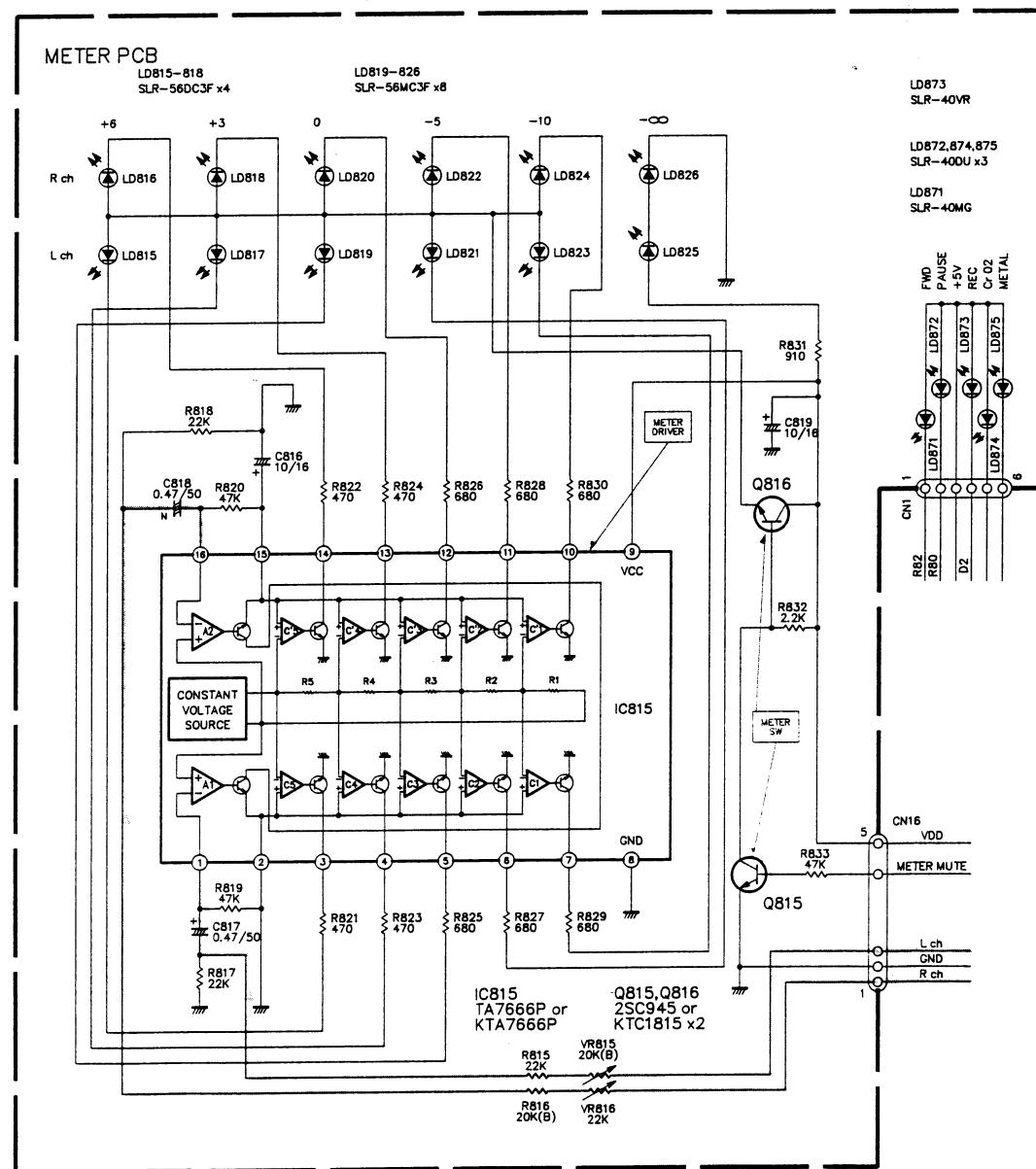
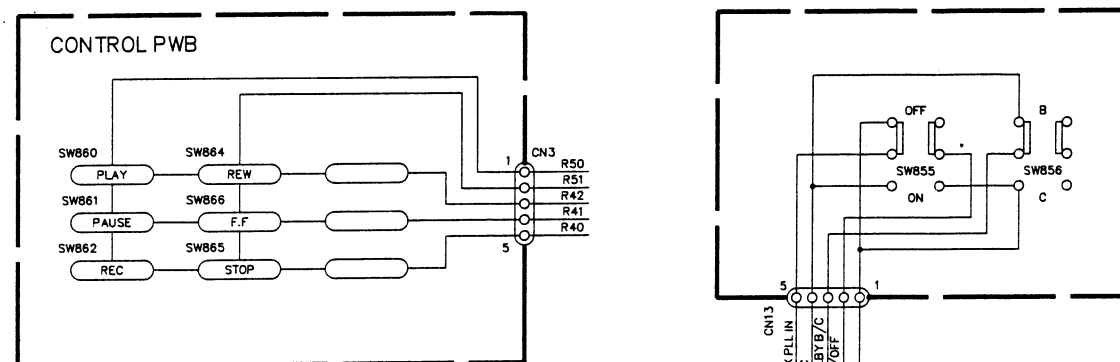
1

2

3

4

5



Electrical Parts List

Resistor : Carbon resistors under 1/4 watts are not mentioned in the parts list,
please confirm them by schematic diagram.
Capacitor : μF = microfarads, pF = picofarads

Abbreviations					Symbol No.	Part No.	Description		
RES. = Resistor C.F. = Carbon Film M.F. = Metal Film M.O. = Metal Oxide Film M.P. = Metal Plate CTM. = Cement Resistor TR. = Transistor TRANS. = Transformer CP. = Chip CAP. = Capacitor ELY. = Electrolytic CER. = Ceramic MYL. = Mylar TAN. = Tantalum POLY. = Polystyrol PP. = Polypropylene PLT. = Polyethylene STR. = Styrene M-PL. = M-Plastic					Q113 or Q114 or Q115 or Q204 or Q205 or Q206 or Q207 or Q208 or Q209 or Q210 Q211 or Q212 or Q213 or Q214 Q215 Q216 or Q221 or Q222 or Q223 or Q224 or Q225 or Q226 or Q507 Q508 or Q510 Q511	48E05542S01 48E04784S04 48E05542S01 48E04784S04 48T65363F02 48E04785S03 48E05542S01 48E04784S04 48E05542S01 48E04784S04 48E05542S01 48E04784S04 48E05542S01 48E04784S04 48T58776F02 48T65363F02 48E04785S03 48E05542S01 48E04784S04 48T65363F02 48E04785S03 KTA1015 48E05541S01 48E05541S01 48T65363F02 48E04785S03 48E05542S01 48E04784S04 48E05542S01 48E04784S04 48E05542S01 48E04784S04 48E05542S01 48E04784S04 48E05541S01 48E05542S01 48E04784S04 48E05543S01 48E05543S01	2SC945 KTC1815 2SC945 KTC1815 2SA608 KTA1015 2SC945 KTC1815 2SC945 KTC1815 2SD438 2SA608 KTA1015 2SC945 KTC1815 2SD1012 2SD1012 2SA608 KTA1015 2SC945 KTC1815 2SC945 KTC1815 2SC945 KTC1815 2SD1012 2SC945 KTC1815 2SB808 2SB808		
Symbol No.	Part No.	Description			Main P. C. Board				
IC's									
IC101	51E05529S01	μ PC1330HA							
IC102	51T73021F02	NJM2068SD							
IC103	51E05539S01	CX20187							
IC104	51E05531S01	NJM4558S (D)							
IC202	51T72929F01	μ PC1297CA							
IC203	51E05533S01	TA75558S							
IC205	51E05532S01	NJU4066BD							
IC501	51E05534S01	TV1008 614042SK01							
IC502	51E05535S01	PST523E							
IC601	51E05536S01	MC78M12CT							
IC602	51T94884F04	MC7812CT							
IC603	51E05537S01	MC78M06CT							
Transistors									
Q101	48E05541S01	2SD1012							
Q102	48E05541S01	2SD1012							
Q103	48T65363F02	2SA608							
or	48E04785S03	KTA1015							
Q104	48E05542S01	2SC945							
or	48E04784S04	KTC1815							
Q105	48E05542S01	2SC945							
or	48E04784S04	KTC1815							
Q107	48E05542S01	2SC945							
or	48E04784S04	KTC1815							
Q108	48E05542S01	2SC945							
or	48E04784S04	KTC1815							
Q109	48E05541S01	2SD1012							
Q110	48E05541S01	2SD1012							
Q111	48E05542S01	2SC945							
or	48E04784S04	KTC1815							
Q112	48E05542S01	2SC945							
or	48E04784S04	KTC1815							

Symbol No.	Part No.	Description			Symbol No.	Part No.	Description		
Q512 or Q513 or Q518 or	48E05542S01 48E04784S04 48E05542S01 48E04784S04 48E05542S01 48E04784S04	2SC945 KTC1815 2SC945 KTC1815 2SC945 KTC1815			D603 or D604 or	48S40477U02 48T44992F01 48S40477U02 48T44992F01	1N4002 DS135D 1N4002 DS135D		
Q519 or Q520 or Q521 or	48E05542S01 48E04784S04 48E05542S01 48E04784S04 48E05542S01 48E04784S04	2SC945 KTC1815 2SC945 KTC1815 2SC945 KTC1815			Coils/Inductors				
Q522 or Q845 or	48T65363F02 48E04785S03 48E05542S01 48E04784S04	2SA608 KTA1015 2SC945 KTC1815			L101 L102 L203 L204 L205	24E05523S01 24E05523S01 24E07997S01 24E07997S01 24E05525S01	Coil 22mH Coil 22mH Coil 10mH Coil 10mH Coil 6mH		
Diodes					L206 L207 L208 L209	24E05525S01 24E05526S01 24E05526S01 24E05527S01	Coil 6mH Inductor 12mH Inductor 12mH Coil 1.72mH		
D102 D103 D104 D201 or	48E04616S01 48E04616S01 48E04616S01 48T40732F08 48T52739F15	1N4148 1N4148 1N4148 Zener, RD3.6E Zener, HZ3-C3			Filters				
D504 D506 or D508 or	48E04616S01 48S40477U02 48T44992F01 48S40477U02 48T44992F01	1N4148 1N4002 DS135D 1N4002 DS135D			FT101 FT102	91E05528S01 91E05528S01	10PD MPX 10PD MPX		
D510 D512 D521 or D522 or	48E04616S01 48E04616S01 48T56372F21 48T52739F28 48S40477U02 48T44992F01	1N4148 1N4148 Zener, RD4.7E Zener, HZ5B-1 1N4002 DS135D			Jack				
D523 or D601 or D602 or	48S40477U02 48T44992F01 48S40477U02 48T44992F01 48S40477U02 48T44992F01	1N4002 DS135D 1N4002 DS135D 1N4002 DS135D			JK101	09E07996S01	RCA Jack		
					Resonator				
					X501	48E05503S01	Resonator 4MHz		

Symbol No.	Part No.	Description			Symbol No.	Part No.	Description		
Capacitors					C154	23E06052S02	ELY., 330 μ F/10V		
C101	21E04638S02	CER., 470pF			C155	08E04735S09	MYL., 0.022 μ F		
C102	21E04638S02	CER., 470pF			C156	08E04735S09	MYL., 0.022 μ F		
C103	21E04734S02	CER., 680pF			C157	08E04735S10	MYL., 2700pF		
C104	21E04734S02	CER., 680pF			C158	08E04735S10	MYL., 2700pF		
C105	23E04635S03	ELY., 1 μ F/50V			C201	23E04635S08	ELY., 2.2 μ F/50V		
C106	23E04635S03	ELY., 1 μ F/50V			C202	23E04635S08	ELY., 2.2 μ F/50V		
C107	21E04638S03	CER., 100pF			C203	21E04638S10	CER., 1000pF		
C108	21E04638S03	CER., 100pF			C204	21E04638S10	CER., 1000pF		
C109	21E04734S10	CER., 100pF			C205	21E04734S08	CER., 220pF		
C110	21E04734S10	CER., 100pF			C206	21E04734S08	CER., 220pF		
C111	08E04735S05	MYL., 0.01 μ F			C207	21E05504S01	CER., 0.047 μ F		
C112	08E04735S05	MYL., 0.01 μ F			C208	21E05504S01	CER., 0.047 μ F		
C113	23E04754S04	ELY., 22 μ F/16V			C209	08E04735S09	MYL., 0.022 μ F		
C114	23E04754S04	ELY., 22 μ F/16V			C210	08E04735S09	MYL., 0.022 μ F		
C115	23E04754S02	ELY., 220 μ F/16V			C211	08E04735S09	MYL., 0.022 μ F		
C116	23E04754S02	ELY., 220 μ F/16V			C212	08E04735S09	MYL., 0.022 μ F		
C117	23E04754S02	ELY., 220 μ F/16V			C213	21E04638S09	CER., 430pF		
C118	21E05504S02	CER., 0.01 μ F			C214	21E04638S09	CER., 430pF		
C119	23E04754S01	ELY., 10 μ F/16V			C215	08E04735S05	MYL., 0.01 μ F		
C120	23E04754S01	ELY., 10 μ F/16V			C216	08E04735S05	MYL., 0.01 μ F		
C121	08E04735S06	MYL., 0.015 μ F			C217	23E04754S01	ELY., 10 μ F/16V		
C122	08E04735S06	MYL., 0.015 μ F			C218	21E04734S01	CER., 10pF		
C123	23E04754S01	ELY., 47 μ F/16V			C219	08E05505S01	PP., 2200pF		
C125	21E04734S11	CER., 820pF			C220	08E05505S02	PP., 1500pF		
C126	21E04734S11	CER., 820pF			C221	23E04754S03	ELY., 100 μ F/16V		
C131	08E04735S16	MYL., 4700pF			C222	08E04735S05	MYL., 0.01 μ F		
C132	08E04735S16	MYL., 4700pF			C223	08E04735S12	MYL., 6800pF		
C133	23E04635S04	ELY., 0.47 μ F/50V			C224	08E04735S05	MYL., 0.01 μ F		
C134	23E04635S04	ELY., 0.47 μ F/50V			C227	21E04734S09	CER., 1000pF		
C135	08E05500S01	MYL., 0.15 μ F			C228	21E04734S09	CER., 1000pF		
C136	08E05500S01	MYL., 0.15 μ F			C229	23E04754S01	ELY., 10 μ F/16V		
C137	08E04735S06	MYL., 0.015 μ F			C230	23E04754S01	ELY., 10 μ F/16V		
C138	08E04735S06	MYL., 0.015 μ F			C231	08E05500S06	MYL., 0.082 μ F		
C139	23E04635S05	ELY., 0.22 μ F/50V			C232	08E05500S06	MYL., 0.082 μ F		
C140	23E04635S05	ELY., 0.22 μ F/50V			C233	08E04735S15	MYL., 1800pF		
C141	08E05500S03	MYL., 0.068 μ F			C234	08E04735S15	MYL., 1800pF		
C142	08E05500S03	MYL., 0.068 μ F			C235	23E04754S01	ELY., 10 μ F/16V		
C143	08E05500S05	MYL., 0.047 μ F			C236	23E04754S01	ELY., 10 μ F/16V		
C144	08E05500S05	MYL., 0.047 μ F			C237	08E04735S08	MYL., 5600pF		
C145	08E04735S12	MYL., 6800pF			C238	08E04735S08	MYL., 5600pF		
C146	08E04735S12	MYL., 6800pF			C241	08E04735S13	MYL., 3300pF		
C147	08E04735S05	MYL., 0.01 μ F			C242	08E04735S13	MYL., 3300pF		
C148	08E04735S05	MYL., 0.01 μ F			C243	08E04735S15	MYL., 1800pF		
C151	23E04754S01	ELY., 10 μ F/16V			C244	08E04735S15	MYL., 1800pF		
C152	23E04635S07	ELY., 4.7 μ F/50V			C245	08E04735S18	MYL., 1500pF		
					C246	08E04735S18	MYL., 1500pF		
					C247	08E04735S08	MYL., 5600pF		
					C248	08E04735S08	MYL., 5600pF		
					C249	23E04754S03	ELY., 100 μ F/16V		

Symbol No.	Part No.	Description		
C250	23E04754S01	ELY., 10 μ F/16V		
C251	23E04754S04	ELY., 22 μ F/16V		
C252	23E04754S04	ELY., 22 μ F/16V		
C261	23E04635S07	ELY., 4.7 μ F/50V		
C262	23E04635S07	ELY., 4.7 μ F/50V		
C271	23E04635S03	ELY., 1 μ F/50V		
C272	23E04635S03	ELY., 1 μ F/50V		
C277	21E04734S05	CER., 560pF		
C278	21E04734S05	CER., 560pF		
C279	21E04631S01	CER., 0.01 μ F		
C301	23E04635S08	ELY., 2.2 μ F/50V		
C302	23E04635S08	ELY., 2.2 μ F/50V		
C303	23E04635S08	ELY., 2.2 μ F/50V		
C304	23E04635S08	ELY., 2.2 μ F/50V		
C305	23E04754S05	ELY., 47 μ F/16V		
C306	23E06052S03	ELY., 100 μ F/10V		
C415	23E04754S01	ELY., 10 μ F/16V		
C416	23E04754S01	ELY., 10 μ F/16V		
C501	21E04736S06	CER., 30pF		
C502	21E04736S06	CER., 30pF		
C503	23E04754S03	ELY., 100 μ F/16V		
C506	08E04735S11	MYL., 2200pF		
C507	23E04754S08	ELY., 33 μ F/16V		
C508	23E04731S02	ELY., 10 μ F/35V		
C510	23E04754S05	ELY., 47 μ F/16V		
C511	23E04754S05	ELY., 47 μ F/16V		
C601	21E05506S01	CER., 0.047 μ F		
C603	23E04636S03	ELY., 3300 μ F/25V		
C604	23E04754S06	ELY., 470 μ F/16V		
C605	23E04754S07	ELY., 4700 μ F/16V		
C606	23E06052S03	ELY., 100 μ F/10V		
C607	21E04631S04	CER., 0.047 μ F		
C608	23E04635S03	ELY., 1 μ F/50V		
Resistors				
R131	06E05508S03	C.F., 1K ohm 1/2W		
R181	06E05508S04	C.F., 100 ohm 1/2W		
R224	06E05508S05	C.F., 30 ohm 1/2W		
R246	06E05508S02	C.F., 220 ohm 1/2W		
R309	06E05508S06	C.F., 180 ohm 1/2W		
R545	06E05508S03	C.F., 1K ohm 1/2W		
R601	06E05509S01	Fuse 2.2 ohm 1/4W		
R602	06E05546S01	Fuse 2.2 ohm 1/2W		
R603	06E05509S03	Fuse 13 ohm 1/4W		
VR101	18E05510S01	Semi-fixed 500B		
or	18E05511S01	Semi-fixed 500B		

Symbol No.	Part No.	Description		
VR102	18E05510S01	Semi-fixed 500B		
or	18E05511S01	Semi-fixed 500B		
VR203	18E05510S06	Semi-fixed 30kB		
or	18E05511S06	Semi-fixed 30kB		
VR204	18E05510S06	Semi-fixed 30kB		
or	18E05511S06	Semi-fixed 30kB		
VR205	18E05510S02	Semi-fixed 5kB		
or	18E05511S02	Semi-fixed 5kB		
VR206	18E05510S02	Semi-fixed 5kB		
or	18E05511S02	Semi-fixed 5kB		
VR207	18E05510S02	Semi-fixed 5kB		
or	18E05511S02	Semi-fixed 5kB		
VR208	18E05510S02	Semi-fixed 5kB		
or	18E05511S02	Semi-fixed 5kB		
VR209	18E05510S03	Semi-fixed 50kB		
or	18E05511S03	Semi-fixed 50kB		
VR210	18E05510S03	Semi-fixed 50kB		
or	18E05511S03	Semi-fixed 50kB		
VR845	18E05929S01	Semi-fixed 2kB		
or	18E05930S01	Semi-fixed 2KB		
Power SW P. C. Board				
Capacitor/Switch				
C895	08E04663S01	CAP., Line, 0.01 μ F/400V		
SW895	40E04667S01	Switch, Push (Power)		
Meter P. C. Board				
IC				
IC815	51E05538S01	TA7666P		
or	51E05547S01	KIA7666P		

Symbol No.	Part No.	Description			Symbol No.	Part No.	Description		
Transistors					Capacitors				
Q815 or Q816 or	48E05542S01 48E04784S04 48E05542S01 48E04784S04	2SC945 KTC1815 2SC945 KTC1815			C815 C816 C817 C818 C819	23E04635S10 23E04635S10 23E04635S04 23E04635S04 23E04635S10	ELY., 10 μ F/16V ELY., 10 μ F/16V ELY., 0.47 μ F/50V ELY., 0.47 μ F/50V ELY., 10 μ F/16V		
LED's					Resistors				
LD815	48E05928S01	SLR-56DC3F (Orange)			VR815 or VR816 or	18E05510S04 18E05511S04 18E05510S04 18E05511S04	Semi-fixed 20k Ω Semi-fixed 20k Ω Semi-fixed 20k Ω Semi-fixed 20k Ω		
LD816	48E05928S01	SLR-56DC3F (Orange)			Dolby SW P. C. Board				
LD817	48E05928S01	SLR-56DC3F (Orange)			Switches				
LD818	48E05928S01	SLR-56DC3F (Orange)			SW855 or SW856 or	40E05516S01 40E05516S02 40E05516S01 40E05516S02	Switch, Push (Dolby ON/OFF) Switch, Push Switch, Push (Dolby B/C) Switch, Push		
LD819	48E08062S01	SLR-56MC3F (Green)			Control P. C. Board				
LD820	48E08062S01	SLR-56MC3F (Green)			Switches				
LD821	48E08062S01	SLR-56MC3F (Green)			SW860 SW861	40E08063S01 40E08063S01	Switch, Key (PLAY) Switch, Key (PAUSE)		
LD822	48E08062S01	SLR-56MC3F (Green)			SW862 SW864 SW865	40E08063S01 40E08063S01 40E08063S01	Switch, Key (REC) Switch, Key (REW) Switch, Key (STOP)		
LD823	48E08062S01	SLR-56MC3F (Green)			SW866	40E08063S01	Switch, Key (FF)		
LD824	48E08062S01	SLR-56MC3F (Green)							
LD825	48E08062S01	SLR-56MC3F (Green)							
LD826	48E08062S01	SLR-56MC3F (Green)							
LD871	48E05512S01	SLR-40MG3F (Green)							
LD872	48E05513S01	SLR-40DU3F (Orange)							
LD873	48E05514S01	SLR-40VR3F (Red)							
LD874	48E05513S01	SLR-40DU3F (Orange)							
LD875	48E05513S01	SLR-40DU3F (Orange)							

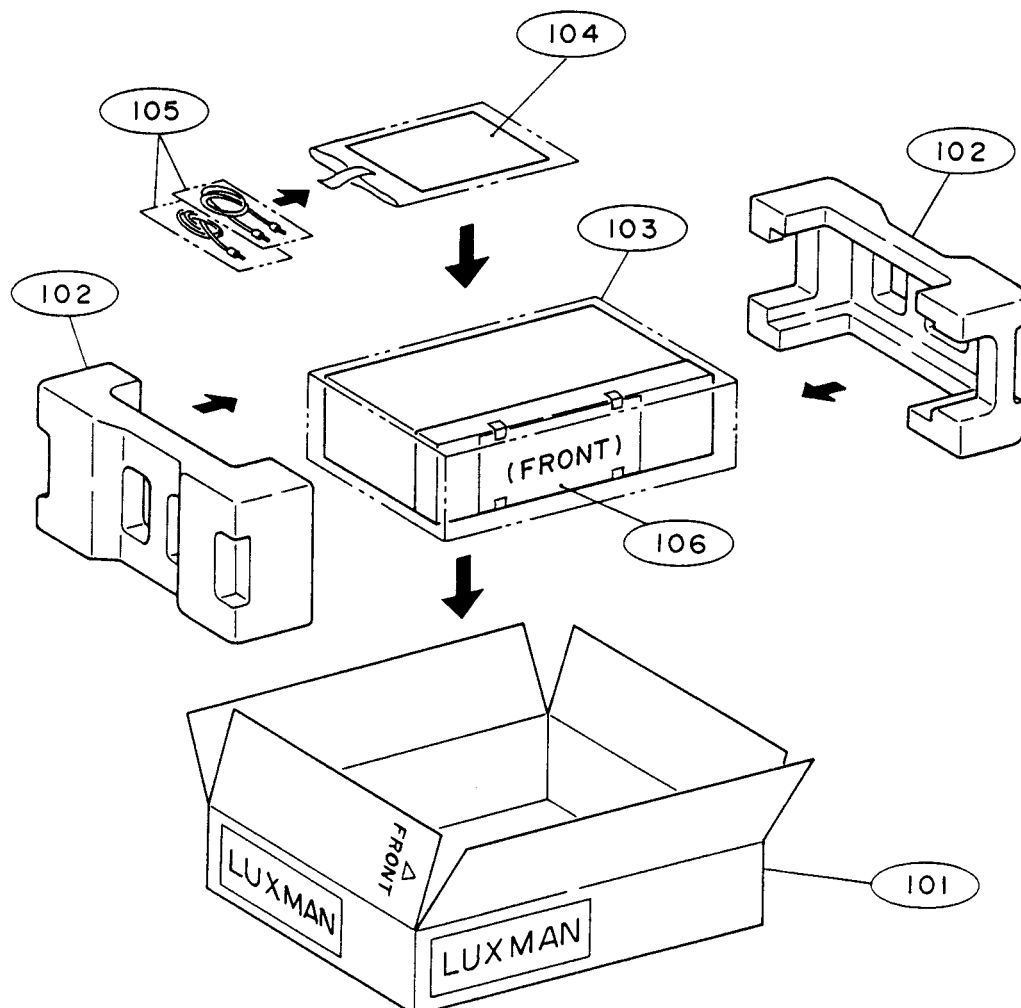
Symbol No.	Part No.	Description		
Headphone P. C. Board				
IC				
IC801	51E05540S01	NJM4556S		
Transistors				
Q801	48E05541S01	2SD1012 (D)		
Q802	48E05541S01	2SD1012 (D)		
Jack				
JK801	09E05518S01	Jack 6.3		
Capacitors				
C801	23E04754S03	ELY., 100 μ F/16V		
C802	23E04754S03	ELY., 100 μ F/16V		
C803	23E04635S08	ELY., 2.2 μ F/50V		
C804	23E04635S08	ELY., 2.2 μ F/50V		
C805	21E04638S03	CER., 100pF		
C806	21E04638S03	CER., 100pF		
C807	23E04635S03	ELY., 1 μ F/50V		
C808	23E04635S03	ELY., 1 μ F/50V		
C809	23E04754S05	ELY., 47 μ F/16V		
Resistors				
VR801 or VR802 or	18E05520S01 18E05520S02 18E08065S01 18E08065S02	Rotary VR 50KB Rotary VR 50KB Rotary VR 50KB Rotary VR 50KB		

Symbol No.	Part No.	Description		
Miscellaneous				
IC701	51E05436S01	Hall IC LB9050TN for Mechanism		
M701	59E08255S01	Motor		
P801	28E04687S01	AC power Cord		
HD701	88E08253S01	E Head Deck		
HD702	88E08254S01	R/P Head, Deck		
S701	40E05434S01	Switch, Leaf, (PLAY) for Mechanism		
S703	40E05435S01	Switch, Leaf, (Tape Detect) for Mechanism		
S704	40E05433S01	Switch, Leaf, (FWD REC Safety) for Mechanism		
S705	40E05433S01	Switch, Leaf (Metal Select) for Mechanism		
S706	40E05435S01	Switch, Leaf, (FF/ REWIND) for Mechanism		
S707	40E05433S01	Switch, Leaf, (CrO2 Select) for Mechanism		
SD701	01E05399S01	Solenoid 1 for Mechanism		
SD702	01E05399S01	Solenoid 2 for Mechanism		
T801	25E05931S01	TRANS., Power EI54 120/220/240V		
SW800	40E08064S01	Switch, Voltage Selector		

Packing Assembly Parts List

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
101	56E08233S01	Carton, Packing (IND)	106	56E08308S01	PKG, Front Flame
102	56E05497S01	Tray, Packing (L, R)			
103	56E05498S01	Bag, High Polyester			
104	68P96552F73	Owner's Manual			
105	28E04778S02	Cord, Patch			

Packing Method View



Cabinet Assembly Parts List

Note: The parts without part number are not supplied.

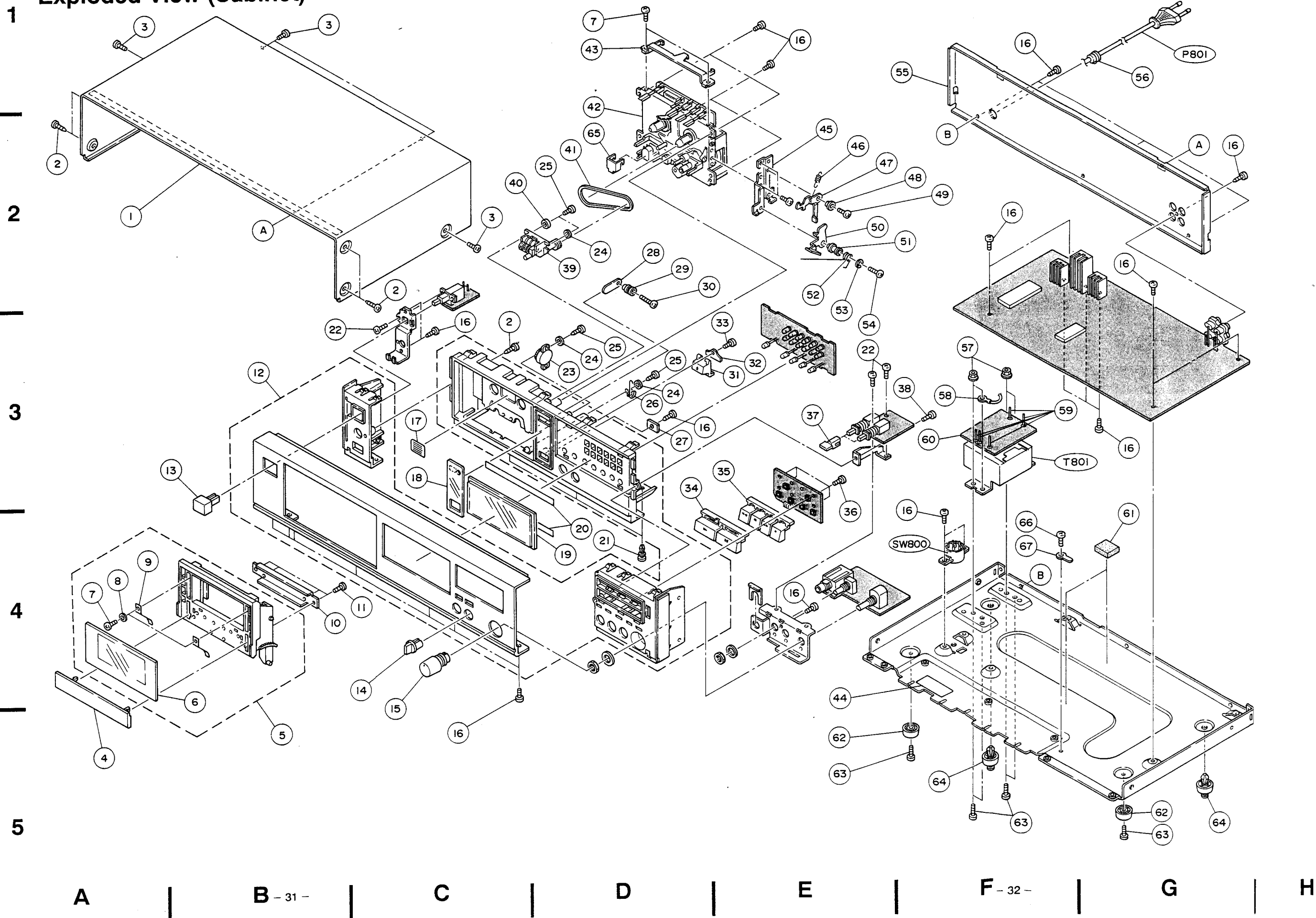
Symbol No.	Index	Part No.	Description			Symbol No.	Index	Part No.	Description		
1	2-A	15E08074S01	Cabinet, Top			36	4-E	03E05066S03	Screw, Taptite (M2 x 8)		
2		03E04701S04	Screw, Taptite (M3 x 10)			37	3-E	36E04672S01	Knob, Dolby		
3		03E04702S09	Screw, Taptite (M3 x 6)			38	3-F	03E04701S04	Screw, Taptite (M3 x 10)		
4	5-A	64E08256S01	Plate, Door			39	2-D	72E05466S01	Counter		
5	5-B	15E08071S01	Assy., Door			40	2-C	43E07210S01	Collar		
6	4-B	64E08257S01	Window, Door			41	2-D	42E05491S01	Belt		
7		03E05066S02	Screw, Taptite (M2 x 5)			42	1-D	81E08066S01	Assy., Tape, Mechanism		
8	4-A	04E05465S01	Washer, (M2)			43	1-D	07E08262S01	Holder		
9		41E05448S01	Spring, Leaf			44	5-E	14E08306S01	Sheet, Insulation		
10	4-B	07E05451S01	Cover			45	2-E	07E05480S01	Holder, Base		
11	4-C	03E04701S03	Screw, Taptite (M2.6 x 8)			46	2-E	41E05481S01	Spring, Coil		
12	3-B	64E08068S01	Assy., Panel Front			47	2-E	07E05483S01	Lever, Door Look		
13	3-B	36E04673S01	Knob, Power			48	2-F	46E05487S01	Stud		
14	4-C	36E05461S01	Knob, Level			49	2-F	03E05490S01	Screw (M2 x 4)		
15	5-C	36E04677S01	Knob, Rec Level			50	2-E	07E05485S01	Lever, Eject		
16		03E04701S01	Screw, Taptite (M3 x 8)			51	2-F	43E05489S01	Spacer		
17	3-C	64E05445S01	Mirror, Cassette			52	2-E	41E05493S01	Spring, Torsion		
18	3-C	64E08258S01	Plate, Indication			53	3-E	04E05494S01	E-ring		
19	4-D	64E08259S01	Window			54	3-E	03E05490S03	Screw (M2 x 12)		
20	4-D	75E08260S01	Cushion			● 55	1-F	15E08263S01	Panel, Back		
21	4-D	05E04709S02	Rivet, Nylon			○ 55	1-F	15E08264S01	Panel, Back		
22		03E04775S02	Screw, Taptite (M3 x 6)			56	1-G	43E04688S01	Bushing, Cord		
23	3-D	01E08072S01	Assy., Damper			57	3-F	02E05471S01	Nut, Flange		
24		04E05467S01	Washer, (M2.6)			58	3-F	29E04693S01	Lug		
25		03E04701S06	Screw, Taptite (M2.6 x 6)			59	3-F	29E08100S01	Terminal, Pin		
26	3-D	41E05452S01	Spring, Torsion			60	3-F	84E08281S01	PCB 31		
27	3-D	07E05455S01	Holder, Door			61	4-G	75E05472S01	Cution		
28	2-D	07E05486S01	Slider			62		75E04521S01	Foot, Front		
29	2-D	43E05488S01	Spacer			63		03E04702S06	Screw, Taptite (M4 x10)		
30	2-D	03E05490S02	Screw, (M2 x 10)			64		75E04678S01	Foot, Back		
31	3-E	36E05468S02	Knob, Eject			65	2-D	07E08307S01	Shield, Cover		
32	3-E	07E08261S01	Holder			66	4-F	03E08004S01	Screw, Taptite (M3 x 6)		
33	3-E	03E05066S04	Screw, Taptite (M2.6 x 6)			67	4-F	29E04693S01	Lug		
34	3-D	36E08070S01	Knob, Play/Pause								
35	3-E	36E06178S01	Knob, Rew/Stop/FF/Rec								

Note ● : For West Germany model only (AD)

○ : For General Foreign model only (EK)

Others Common

Exploded View (Cabinet)



Exploded View (Cassette Deck)

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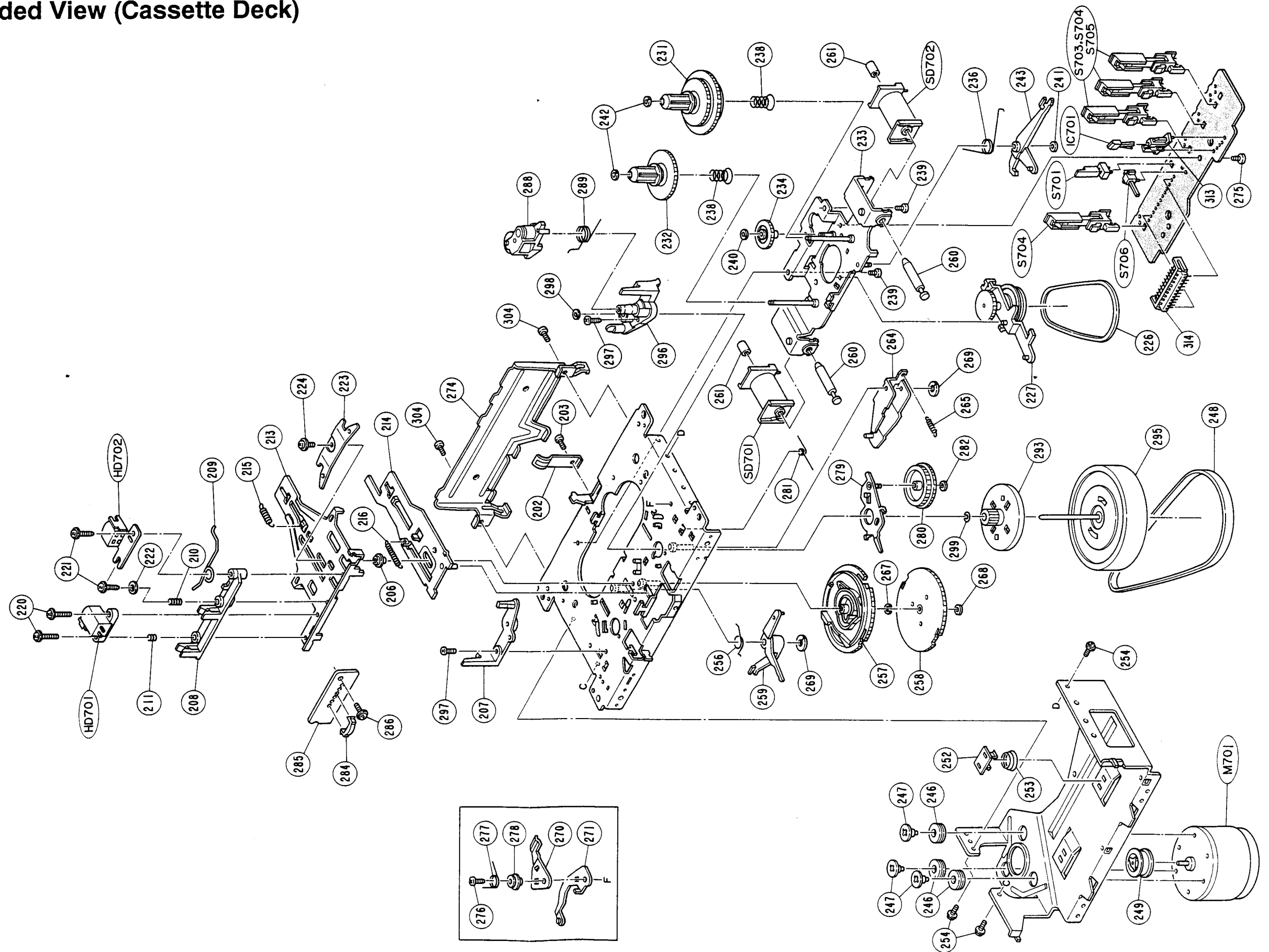
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Cassette Deck Assembly Parts List

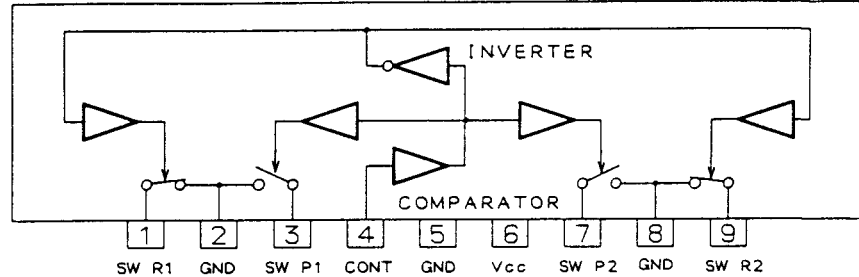
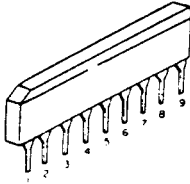
Note: The parts without part number are not supplied.

Symbol No.	Index	Part No.	Description			Symbol No.	Index	Part No.	Description		
202	3-D	41E05346S01	Spring, Pack			253	5-F	41E05387S01	Spring, Damper		
203	3-D	03E05347S01	Screw, Tapping, (M2 x 3)			254		03E05388S01	Screw, Tams (M2 x 4)		
206	4-C	43E08234S01	Collar, Panel (A)			256	4-E	41E05389S01	Spring, M Trigger		
207	4-D	45E08238S01	Guide, Tape			257	4-F	44E05390S01	M Gear		
208	4-B	01E08239S01	Head, Base			258	4-F	44E05391S01	Gear, RF Cam		
209	3-B	41E08242S01	Spring, Pinch Roller			259	4-E	45E05392S01	Arm, M Trigger		
210	3-B	41E08243S01	Spring, Azimuth			260		47E05393S01	Plunger		
211	4-B	41E08244S01	Spring, EH			261		43E05394S01	Holder, Plunger		
213	3-C	15E08248S01	Head, Panel (A)			264	2-F	01E05397S01	Ass'y, P Kick Lever		
214	3-C	15E05357S01	Head, Panel (B)			265	3-F	41E05398S01	Spring, PK Lever		
215	3-B	41E08245S01	Spring, RC			267	4-F	04E05400S01	E Ring ø2.0		
216	3-C	41E08246S01	Spring, Panel			268	4-F	04E05401S01	HL Washer, (M1.55)		
220	4-A	03E08236S01	Screw, (M2 x 11)			269		04E05378S01	HL Washer, (M2.1)		
221	3-B	03E08237S01	Screw, (M2 x 9.5)			270	5-D	07E05441S01	E Stopper A (F)		
222	3-B	04E08249S01	Washer, BS (M2.1)			271	5-D	07E05442S01	E Stopper B (F)		
223	3-C	41E08247S01	Spring, Plate			274	3-C	15E05405S01	Protector, SW		
224	3-C	03E05366S01	Screw, Tapping (M2 x 5)			275	2-G	03E05406S01	Screw, (M2 x 5)		
226	2-G	42E05368S01	RF, Belt			276	5-D	03E08235S01	Screw, (M2 x 5)		
227	3-F	01E08240S01	Ass'y, RF Clutch			277	5-D	41E05408S01	Spring, E Stopper		
231	1-E	01E05370S01	Ass'y, T Reel (F)			278	5-D	43E05409S01	Collar, E Stopper		
232	2-E	01E08241S01	Ass'y, S Reel			279	3-E	01E05410S01	Ass'y, T Gear Arm		
233	2-F	01E05372S01	Ass'y, Reel Base			280	3-F	44E08251S01	T Gear		
234	2-E	44E05373S01	Gear, FF			281	3-E	41E05412S01	Spring, TG Arm		
236	1-F	41E05374S01	Spring, FR Trigger Arm			282	3-F	04E05377S01	P Washer, (M1.2)		
238		41E05375S01	Spring, (R) B.T			284	4-C	43E05355S01	Wire, Clamp		
239	2-F	03E05376S01	Screw, Tapping (M2 x 4)			285	4-C	84E05439S01	Relay, Board		
240	2-E	04E05377S01	P Washer, (M1.2)			286	4-C	03E05365S01	Screw, (M2 x 5)		
241	1-G	04E08250S01	P Washer, (M2.1)			288	2-D	01E05416S01	Ass'y, Pinch Roller Arm (F)		
242	1-D	04E05379S01	HL Washer, (M1.4)			289	2-D	41E05417S01	Spring, P Arm		
243	1-F	45E05380S01	Arm, RF Trigger			293	3-F	44E05420S01	Gear, FL		
246	5-F	75E05381S01	Motor, Rubber			295	3-G	49E05422S01	Ass'y Flywheel (F)		
247	5-F	03E05382S01	Screw, Motor Collar			296	3-D	01E05423S01	Ass'y FL Metal, (F)		
248	3-G	42E08252S01	Belt, Main			297		03E05424S01	Screw, (M2 x 6)		
249	5-G	49E05384S01	Pulley, Motor			298	2-D	04E05425S01	Washer (M2.1) (Nylon)		
252	4-F	07E05386S01	FL Patch, Plate			299	3-F	04E08282S01	HL Washer (M2.3)		

Symbol No.	Index	Part No.	Description			Symbol No.	Index	Part No.	Description		
304		03E05376S01	Screw, Tapping (M2 x 4)								
313	2-G	48E05437S01	IC, Protector								
314	2-G	09E05443S01	Connector, TXL-P 12PM1								

Semi-Conductor Lead Identifications

μ PC1330HA : IC101

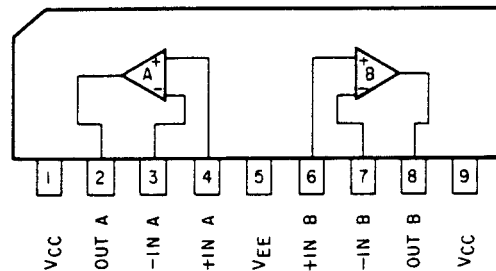
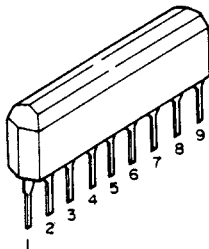


NJM2068 : IC102

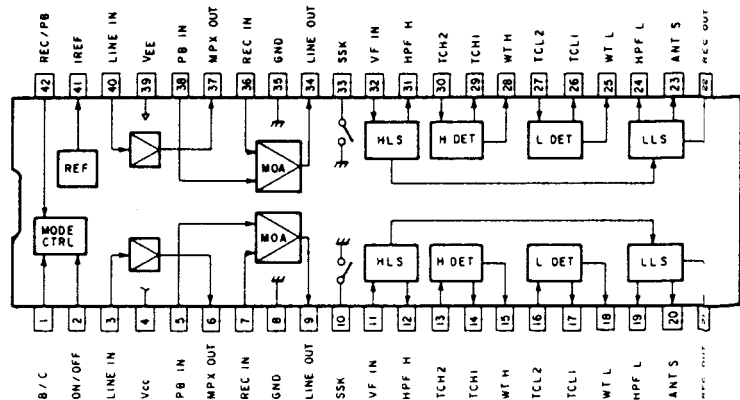
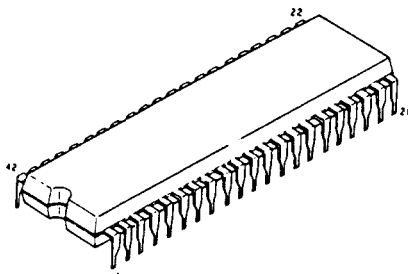
NJM4558S : IC104

NJM4556S : IC801

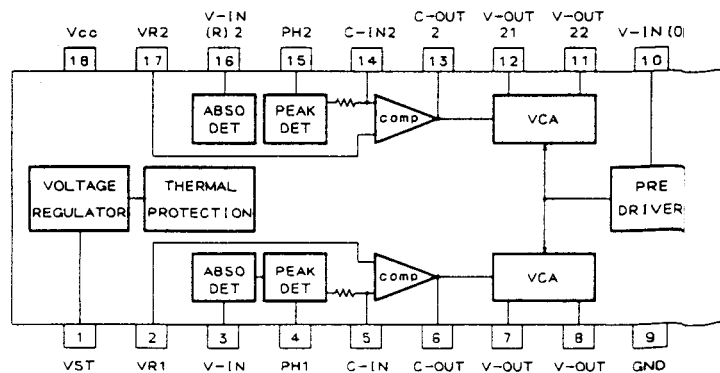
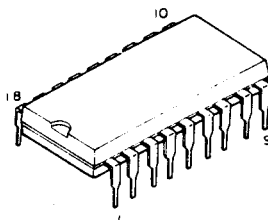
TA75558S : IC203



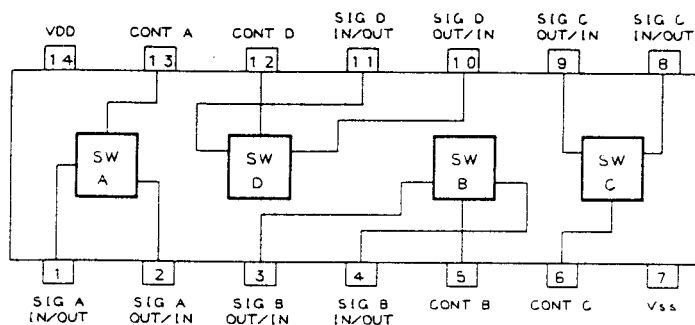
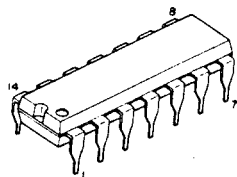
CX20187 : IC103



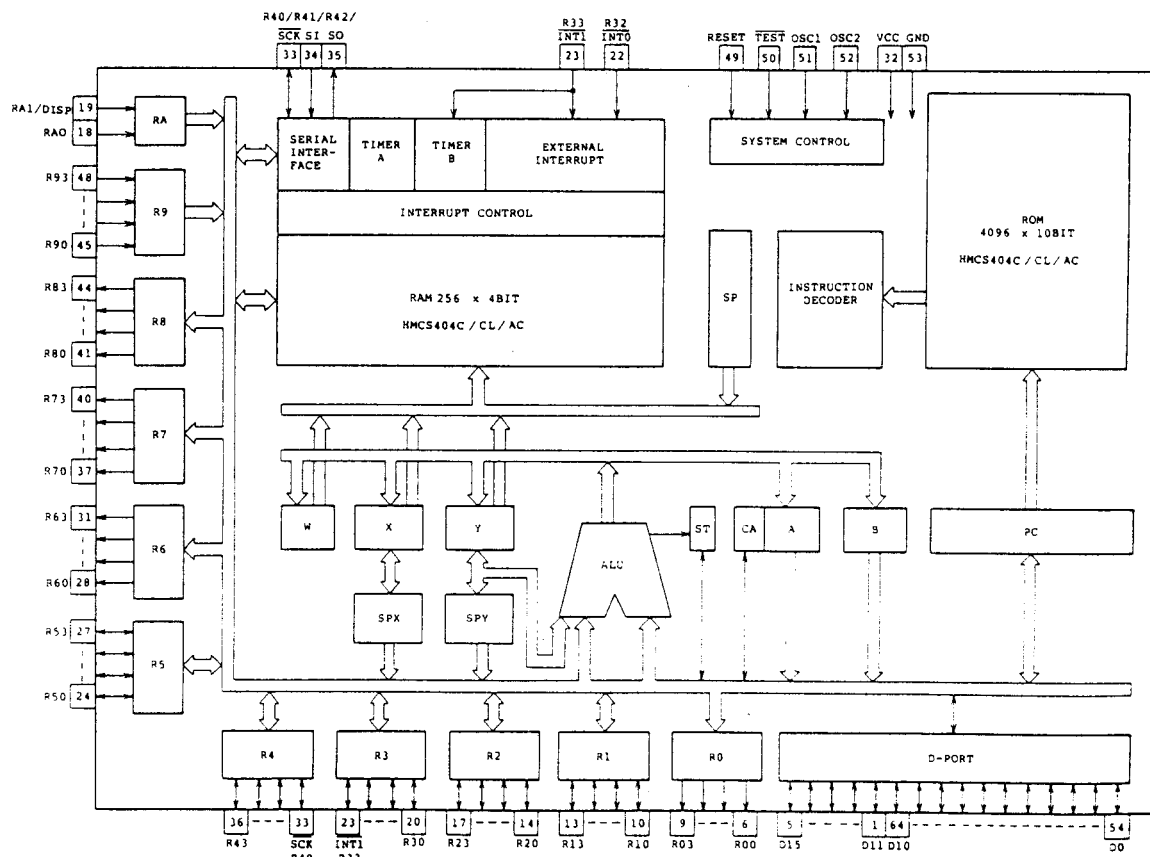
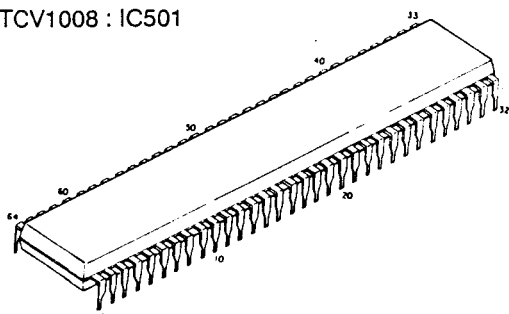
μ PC1297CA : IC202



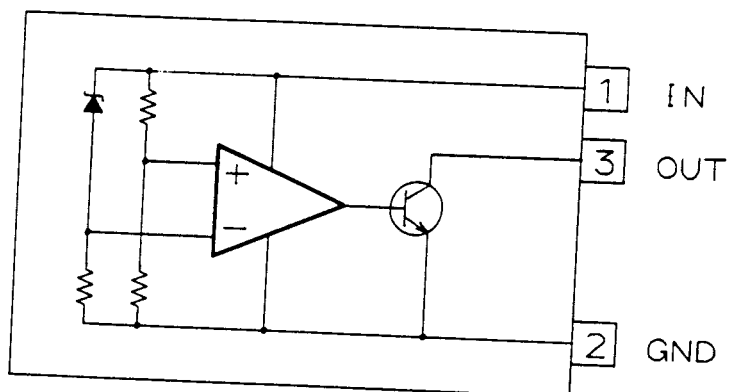
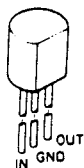
NJU4066B : IC205



TCV1008 : IC501



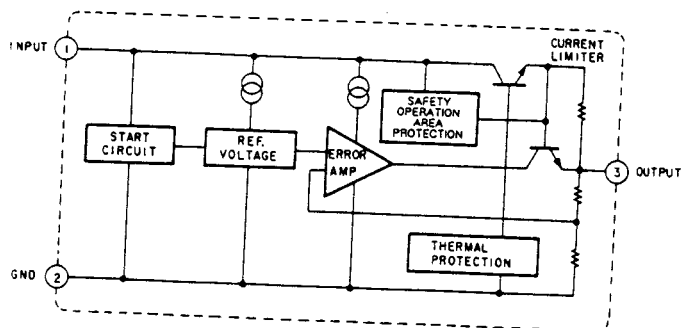
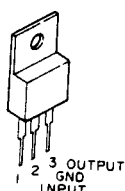
PST523E : IC502



MC7812CT : IC602

MC78M12CT : IC601

MC78M06CT : IC603



TA7666P : IC815

